API Well Number: 43047520510000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER MAVERICK 921-27D-HZ	
2. TYPE OF WORK DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○	**3. FIELD OR WILDCAT** NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO	**5. UNIT or COMMUNITIZATION AGREEMENT NAME**
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.	**7. OPERATOR PHONE** 720 929-6515
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217	**9. OPERATOR E-MAIL** julie.jacobson@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UT ST UO 1194A ST	**11. MINERAL OWNERSHIP** FEDERAL ○ INDIAN ○ STATE ◉ FEE ○
12. SURFACE OWNERSHIP FEDERAL ○ INDIAN ○ STATE ◉ FEE ○	
13. NAME OF SURFACE OWNER (if box 12 = 'fee')	**14. SURFACE OWNER PHONE (if box 12 = 'fee')**
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ○ (Submit Commingling Application) NO ◉
19. SLANT VERTICAL ○ DIRECTIONAL ○ HORIZONTAL ◉	

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	384 FNL 252 FWL	NWNW	27	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	460 FSL 460 FWL	SWSW	27	9.0 S	21.0 E	S
At Total Depth	460 FSL 460 FWL	SWSW	27	9.0 S	21.0 E	S

21. COUNTY UINTAH	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 460	**23. NUMBER OF ACRES IN DRILLING UNIT** 640
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 300	**26. PROPOSED DEPTH** MD: 9397 TVD: 4730
27. ELEVATION - GROUND LEVEL 4934	**28. BOND NUMBER** 22013542	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** 43-8496

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	12.25	9.625	0 - 2723	36.0	J-55 LT&C	8.4	Type V	215	1.18	15.6
							Type V	50	1.18	15.6
I1	8.75	7	0 - 5335	26.0	P-110 LT&C	10.5	Premium Lite High Strength	290	1.98	12.5
							50/50 Poz	280	1.25	14.3
L1	6.125	4.5	3786 - 9397	11.6	P-110 LT&C	9.5	No Used	0	0.0	0.0
							No Used	0	0.0	0.0

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME Andy Lytle	**TITLE** Regulatory Analyst	**PHONE** 720 929-6100
SIGNATURE	**DATE** 10/04/2011	**EMAIL** andrew.lytle@anadarko.com

API NUMBER ASSIGNED
43047520510000

APPROVAL

Permit Manager

RECEIVED: February 21, 2012

Kerr-McGee Oil & Gas Onshore. L.P.

MAVERICK 921-27D-HZ

Surface: 384 FNL / 252 FWL NWNW
BHL: 460 FSL / 460 FWL SWSW

Section 27 T9S R21E

Unitah County, Utah
Mineral Lease: UT ST UO 1194A ST

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1573	Water
Birds Nest	1783	Water
Mahogany	2273	Water
Uteland Butte	5090	Oil/Gas
TVD	4730	
TMD	9397	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

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7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 4730' TVD, approximately equals 2,081 psi

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 1,296 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may

be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

RECEIVED: October 04, 2011

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

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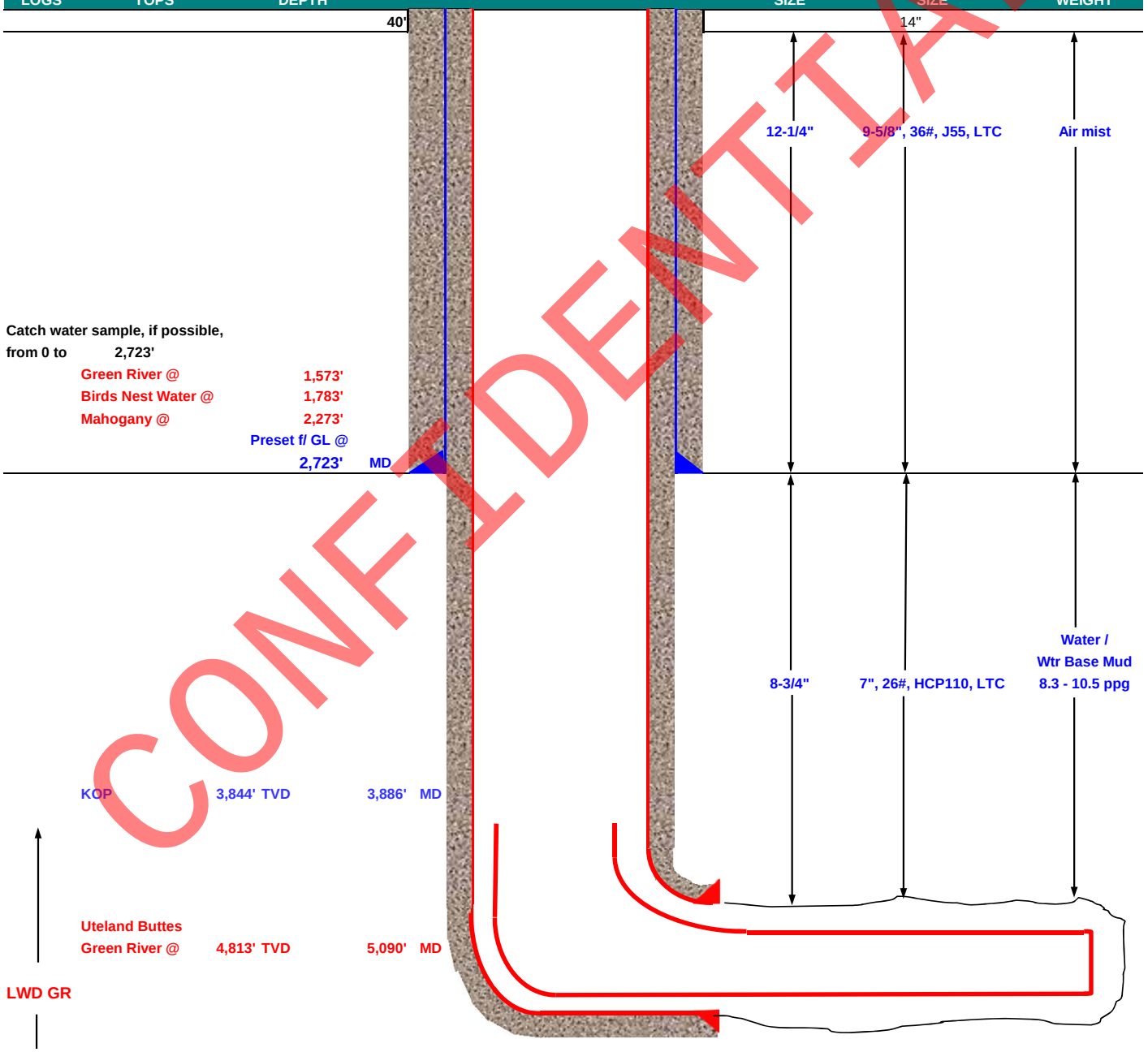
KerrNcGee

Kerr McGee Oil and Gas Onshore LP

DRILLING PROGRAM

COMPANY NAME	Kerr McGee Oil and Gas Onshore LP			DATE	October 4, 2011		
WELL NAME	**Maverick 921-27D-HZ**			TVD	4,730'	9,397' MD	KB 15'
FIELD	Natural Buttes	COUNTY Uintah	STATE	Utah	ELEVATION	4,934' GL	KB 4,949'
SURFACE LOCATION	NWNW Sec 27, T9S, R21E 384' FNL 252' FWL						
BTM HOLE LOCATION	SWSW Sec 27, T9S, R21E 460' FSL 460' FWL						
Surface	Latitude: 40.013318	Longitude: -109.545762	NAD 27				
BHL	Latitude: 40.001069	Longitude: -109.544923	NAD 27				
OBJECTIVE ZONE(S)	Uteland Buttes--Green River						
ADDITIONAL INFO	Regulatory Agencies: UDOGM (MINERALS AND SURFACE) and UDOGM Tri-County Health Dept.						

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			12-1/4"	9-5/8", 36#, J55, LTC	Air mist
Catch water sample, if possible, from 0 to 2,723'					
	Green River @	1,573'			
	Birds Nest Water @	1,783'			
	Mahogany @	2,273'			
		Preset f/ GL @ 2,723' MD			
			8-3/4"	7", 26#, HCP110, LTC	Water / Wtr Base Mud 8.3 - 10.5 ppg
	KOP	3,844' TVD 3,886' MD			
	Uteland Buttes				
	Green River @	4,813' TVD 5,090' MD			
LWD GR					



Maverick 921-27D-HZ

Drilling Program

Uteland (Heel) @	4,848'	TVD	5,335'	MD
TD (Toe) @	4,730'	TVD	9,397'	MD

6-1/8"

4-1/2", 11.6, HCP-110, DQX & LTC

MW = 9.0 - 9.5

LWD: GR/Res

PCL: Sonic/3-Combo/Image

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KerrMcGee

Kerr McGee Oil and Gas Onshore LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3520	2020	453000
SURFACE	9-5/8"	0	to	2,723'	36.00	J55	LTC	2.72**	1.59	5.36
								9950	7800	278000
INTERMEDIATE	7"	0	to	5,335'	26.00	HCP-110	LTC	4.26	3.34	2.58
								10690	8650	367000
PRODUCTION	4-1/2"	3,786'	to	5,435'	11.60	HCP-110	DQX	44.03	3.70	5.05
								10690	8650	279000
	4-1/2"	5,435'	to	9,397'	11.60	HCP-110	LTC	>100	3.70	6.07

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 9.5 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 1296 psi

** Burst SF is low but casing is much stronger than formation at 2653'. EMW @ 2653' for 3520# is 25.5 ppg or 1.33 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% $CaCl_2$	215	60%	15.60	1.18
Option 1			+ .25 pps flocele				
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	50		15.60	1.18
			+ 2% $CaCl_2$ + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% $CaCl_2$	as req.		15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	2,223'	65/35 Poz + 6% Gel + 10 pps gilsonite	520	35%	12.60	1.81
			+.25 pps Flocele + 3% salt BWOW				
	TAIL	500	Premium cmt + 2% $CaCl_2$	180	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% $CaCl_2$	as req.		15.60	1.18
INTERMEDIATE	LEAD	3,386'	Premium Lite II + 3% KCl + 0.25 pps	290	10%	12.50	1.98
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	1,949'	50/50 Poz/G + 10% salt + 2% gel	280	10%	14.30	1.25
			+.1% R-3				
PRODUCTION	LEAD		No cement will be used on Packers Plus Completion System				
	TAIL						

Excess applied to the Lead slurry is calculated on Open hole Volume only.

*Substitute caliper hole volume plus 5% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
INTERMEDIATE	Float shoe, 2 jt w/ centralizer on each, float collar. 1 centralizers on next 23 joints, total 25 centralizers
PRODUCTION	Packer Plus completion system

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ADDITIONAL INFORMATION

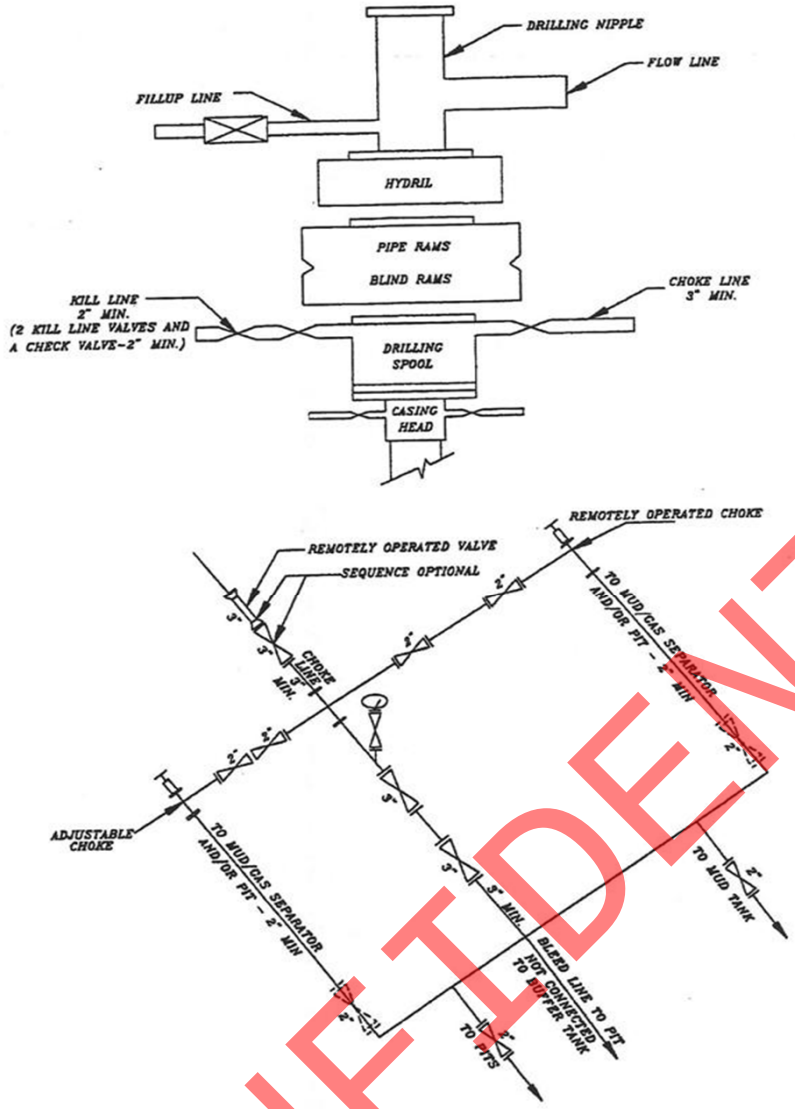
Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out. Test intermediate casing to 4500 psi prior to drill out.
BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.
Survey with MWD every 100' during planned angle changes and every 500' when maintaining angle.
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: John Huycke **DATE:** 9/29/2011

DRILLING SUPERINTENDENT: Lovel Young **DATE:**

RECEIVED: October 04, 2011

EXHIBIT A
MAVERICK 921-27D-HZ



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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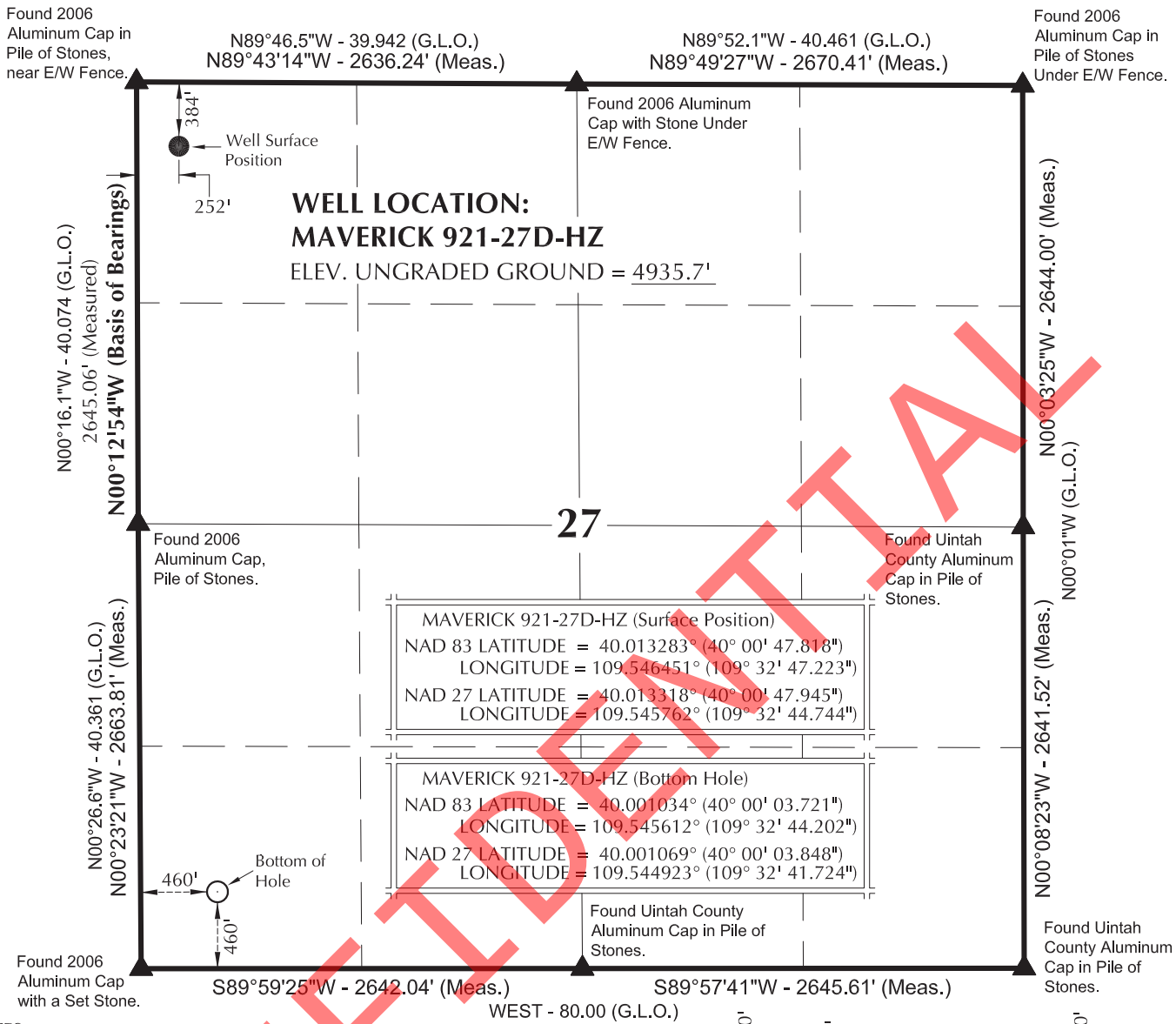
T9S, R21E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears S02°57'45"E 4469.55' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PROFESSIONAL LAND SURVEYOR No.6028691 JOHN R. SLAUGH STATE OF UTAH

9-16-11

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

MAVERICK 921-27D-HZ
WELL PLAT
460' FSL, 460' FWL (Bottom Hole)
SW ¼ SW ¼ OF SECTION 27, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

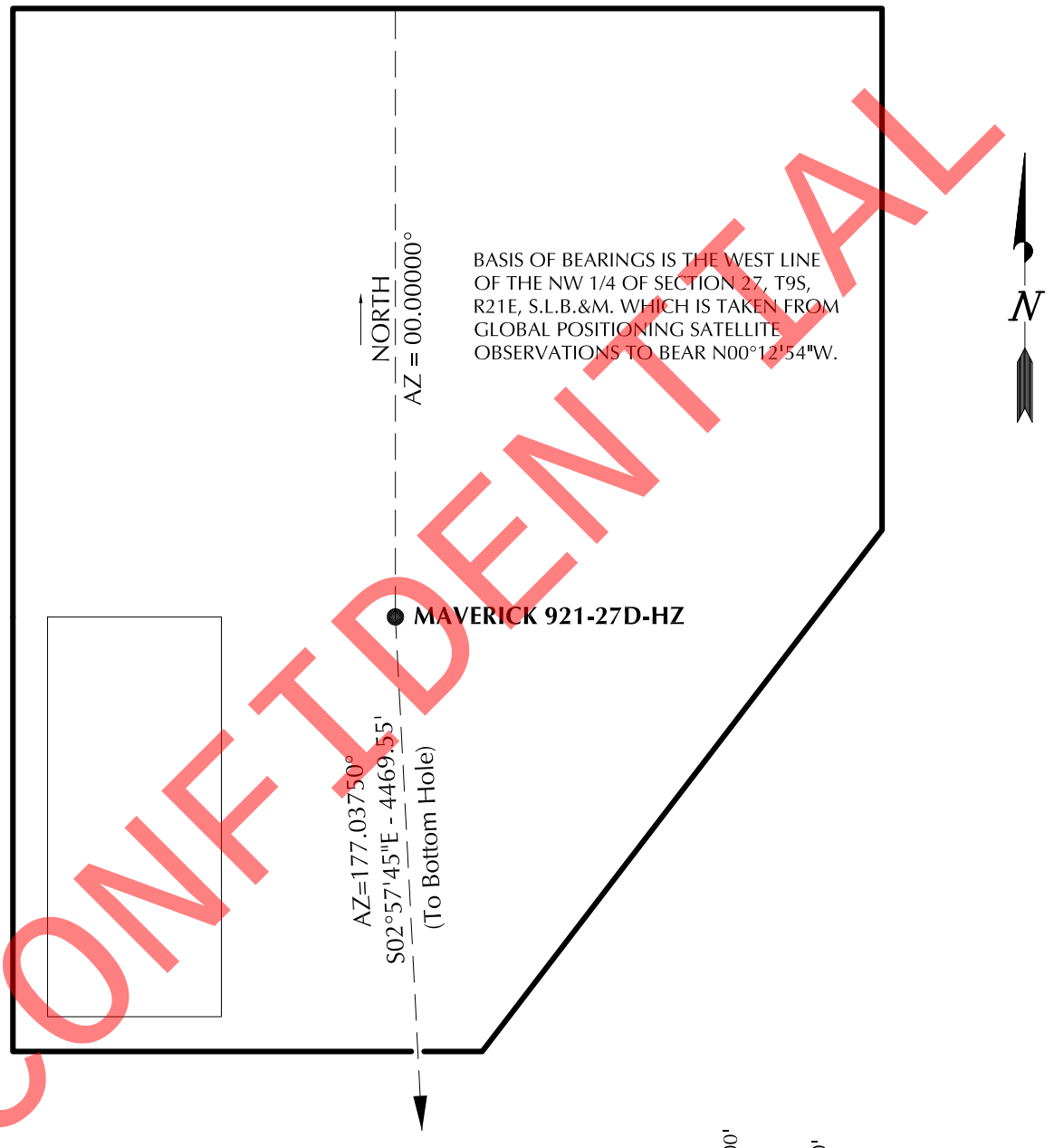
DATE SURVEYED: 09-09-11	SURVEYED BY: M.S.B.	SHEET NO: 1
DATE DRAWN: 09-13-11	DRAWN BY: M.W.W.	1 OF 13
SCALE: 1" = 1000'	Date Last Revised:	

RECEIVED: October 04, 2011

API Well Number: 43047520510000

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
MAVERICK 921-27D-HZ	40°00'47.818" 40.013283°	109°32'47.223" 109.546451°	40°00'47.945" 40.013318°	109°32'44.744" 109.545762°	384' FNL 252' FWL	40°00'03.721" 40.001034°	109°32'44.202" 109.545612°	40°00'03.848" 40.001069°	109°32'41.724" 109.544923°	460' FSL 460' FWL

RELATIVE COORDINATES From Surface Position to Bottom Hole		
WELL NAME	NORTH	EAST
MAVERICK 921-27D-HZ	-4,463.6'	231.0'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

WELL PAD INTERFERENCE PLAT
WELL - MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 09-09-11	SURVEYED BY: M.S.B.	SHEET NO: 2
DATE DRAWN: 09-13-11	DRAWN BY: M.W.W.	2 OF 13
SCALE: 1" = 100'	Date Last Revised:	

RECEIVED: October 04, 2011

API Well Number: 43047520510000

PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

EXISTING FENCE

TRIBAL LANDS, SEC. 22, T9S, R21E
STATE LANDS, SEC. 27, T9S, R21E

STATE LANDS, SEC. 27, T9S, R21E
BLM LANDS, SEC. 28, T9S, R21E

6 F8.1 | 7 F13.8 | 8 F6.2

220' | 280' | 350' | 300'

4930

PROPOSED 8" GAS LINE

PPL

CONSTRUCT DIVERSION DITCH (AS NEEDED)

DERRICK STAND | PIPETUBS | PIPERACKS

FILL | CUT

TOPSOIL STOCKPILE

9 C4.0 | 1 C4.5 | 5 C2.0 | W C2.1

B | B'

63'

MAVERICK 921-27D-HZ

PROPOSED SECONDARY ACCESS ROAD

PROPOSED PRIMARY ACCESS ROAD

4940

WATER TANK | MUD TANK | MUD PUMP 2 | MUD PUMP 1 | GENERATOR | DIESEL TANK | BOILER

CUTTINGS COLLECTION AREA

20' | 250' | 230' | 100' | 315'

S02°57'45"E - 4469.55' (TO BOTTOM HOLE)

RECLAIMED PIT

EXISTING WELL: NBU 306

EXISTING WELL PAD

EXISTING TANKS AND BERM

EXISTING SEPARATOR

EPL

4 C10.5 | 3 C12.0 | 2 C11.9

100' | 20' | 220' | 50'

EXCESS CUT STOCKPILE

TOPSOIL STOCKPILE

A | A'

PROPOSED 4" GAS PIPELINE RE-ROUTE

EXISTING SURFACE 4" GAS PIPELINE

UNNAMED CLASS D COUNTY ROAD

CONFIDENTIAL

WELL PAD - MAVERICK 921-27D DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4935.7'
FINISHED GRADE ELEVATION = 4933.6'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 6.59 ACRES
TOTAL DISTURBANCE AREA = 7.49 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 21,950 C.Y.
TOTAL FILL FOR WELL PAD = 20,866 C.Y.
TOPSOIL @ 6" DEPTH = 5,313 C.Y.
EXCESS MATERIAL = 1,084 C.Y.

CUTTINGS COLLECTION AREA QUANTITIES

TOTAL CUT FOR CUTTINGS COLLECTION AREA
+/- 745 C.Y.

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 40' 80' 1" = 80'
2' CONTOURS

WELL PAD - MAVERICK 921-27D

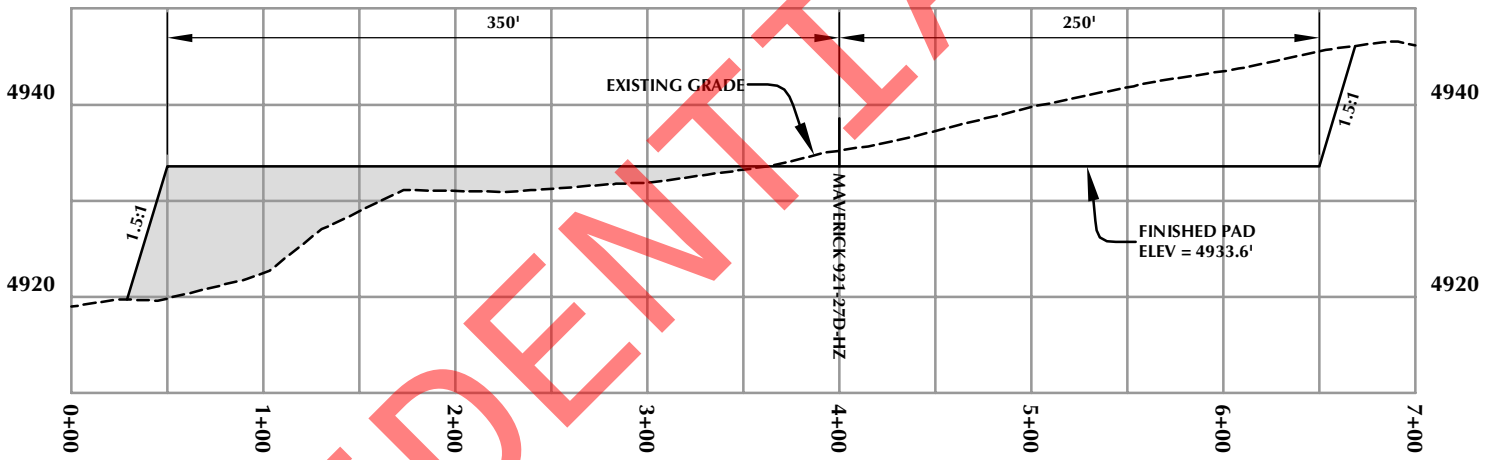
WELL PAD - LOCATION LAYOUT
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

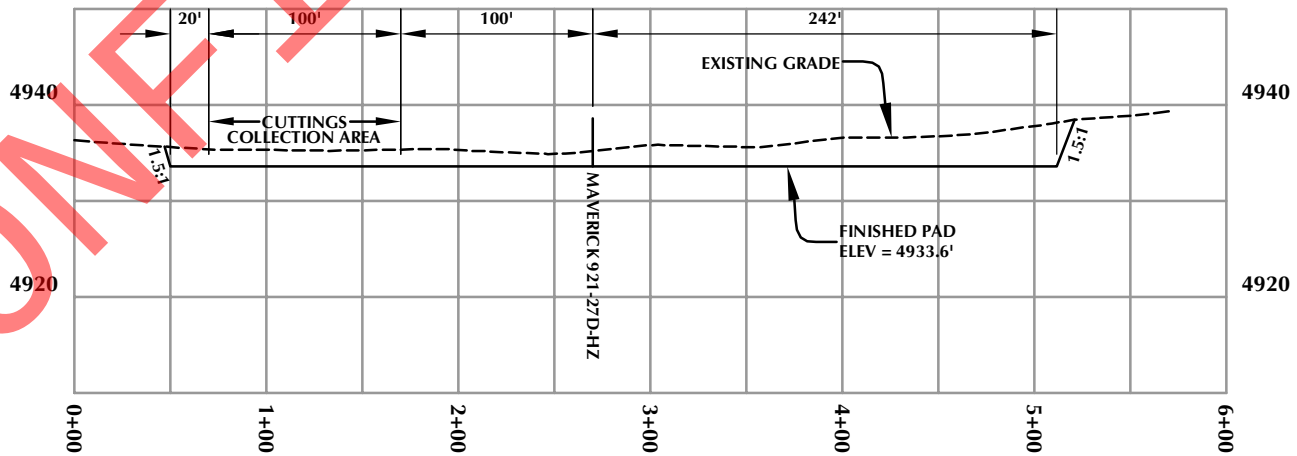
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

SCALE: 1"=80' | DATE: 9/16/11 | SHEET NO: 3 | 3 OF 13
REVISED:

K:\ANADARKO\2011\2011_62_NBU_921-26_&_27_HZ\DWGS\MAVERICK 921-27D-HZ\MAVERICK 921-27D-HZdwg, 9/16/2011 1:37:40 PM, jacob



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

WELL PAD - CROSS SECTIONS
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

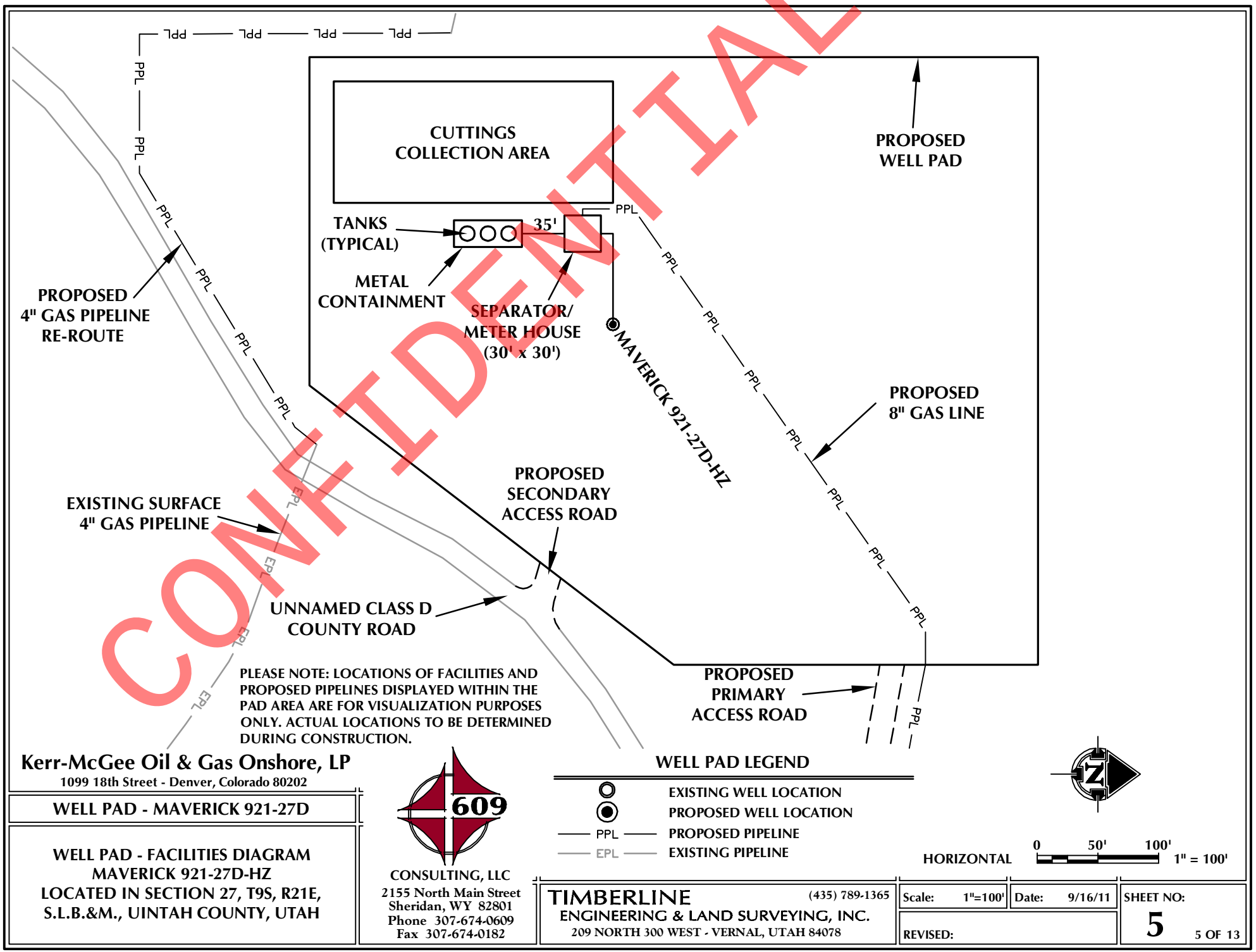
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=100' | Date: 9/16/11 | SHEET NO: 4 | 4 OF 13
REVISED:

K:\ANADARKO\2011\2011_62_NBU_921-26_&_27_HZ\DWGS\MAVERICK 921-27D-HZ\MAVERICK 921-27D-HZ.dwg, 9/15/2011 9:30:43 PM, jacob

RECEIVED: October 04, 2011

API Well Number: 43047520510000



CONFIDENTIAL

PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

WELL PAD - FACILITIES DIAGRAM
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 50' 100' 1" = 100'

TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365

Scale: 1"=100' | Date: 9/16/11 | SHEET NO: 5 | 5 OF 13
REVISED:

K:\ANADARKO\2011\2011_62_NBU_921-26_&_27_HZ\DWGS\MAVERICK 921-27D-HZ\MAVERICK 921-27D-HZ.dwg, 9/16/2011 4:09:12 PM, jacob

RECEIVED: October 04, 2011

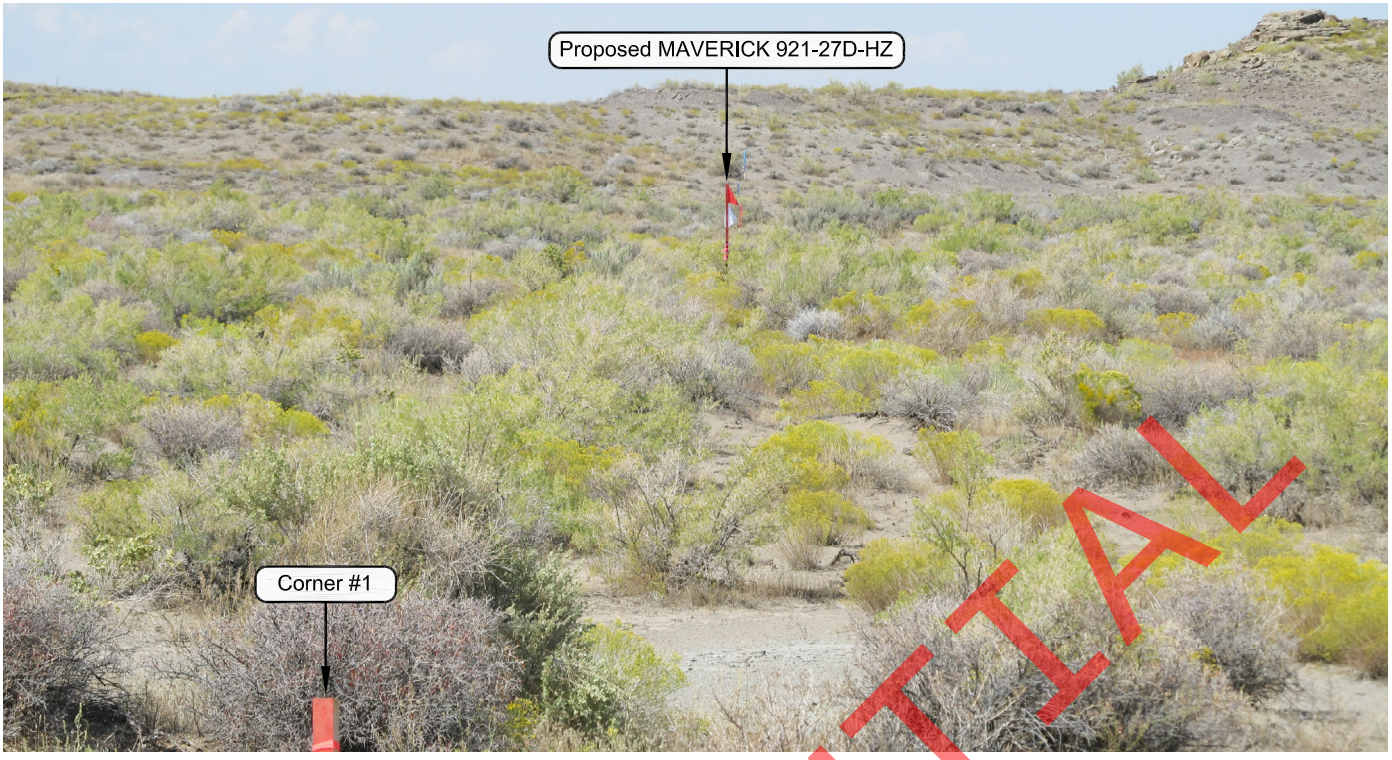


PHOTO VIEW: FROM CORNER #1 TO LOCATION STAKE CAMERA ANGLE: WESTERLY

PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

LOCATION PHOTOS
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

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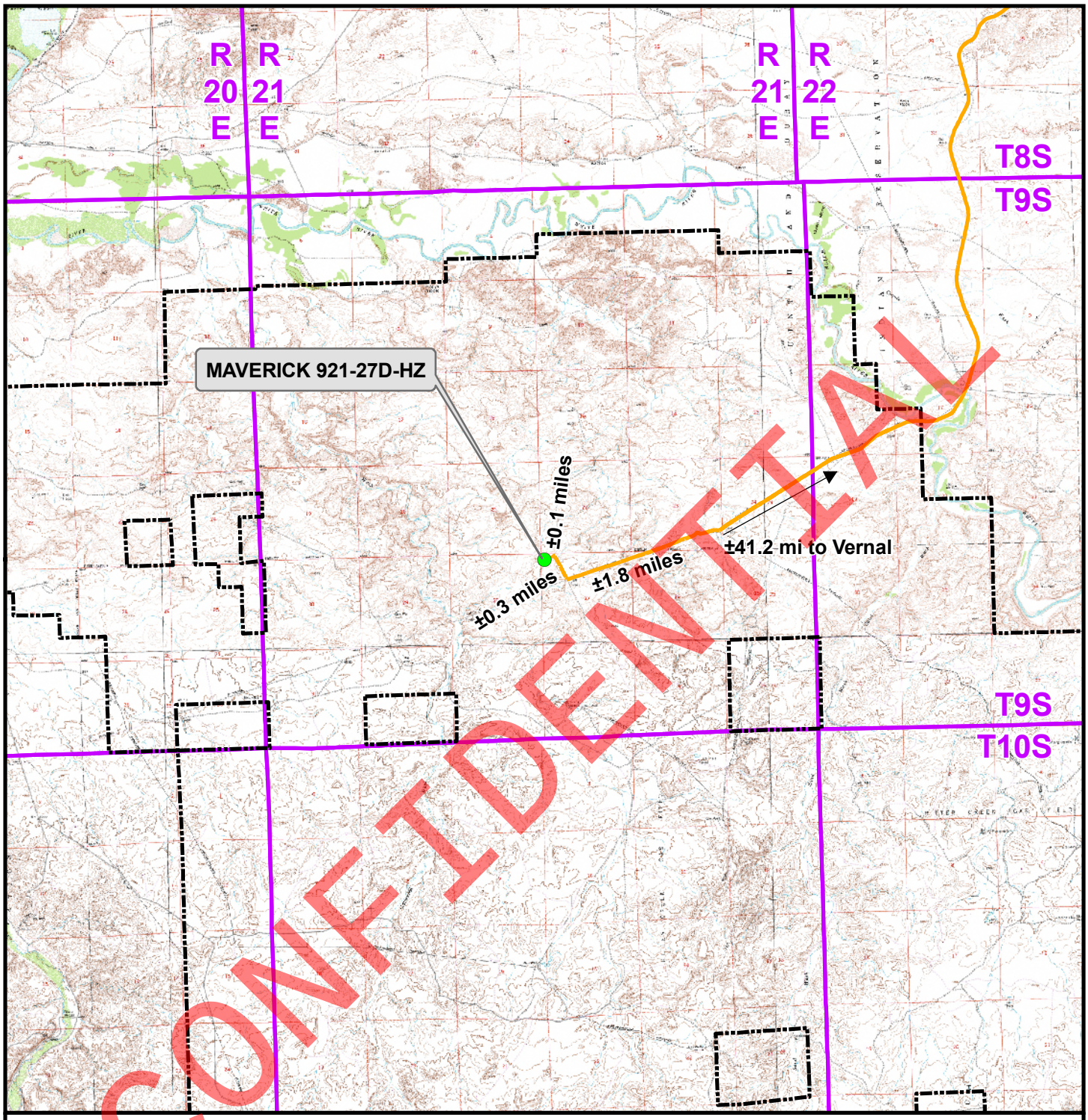
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 09-09-11	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 6
DATE DRAWN: 09-13-11	DRAWN BY: M.W.W.	6 OF 13
Date Last Revised:		

RECEIVED: October 04, 2011

API Well Number: 43047520510000



Legend

Proposed Well Location

Access Route - Proposed

Natural Buttes Unit Boundary

Distance From Well Pad - MAVERICK 921-27D To Unit Boundary: ±9,300ft

WELL PAD - MAVERICK 921-27D

TOPO A
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202

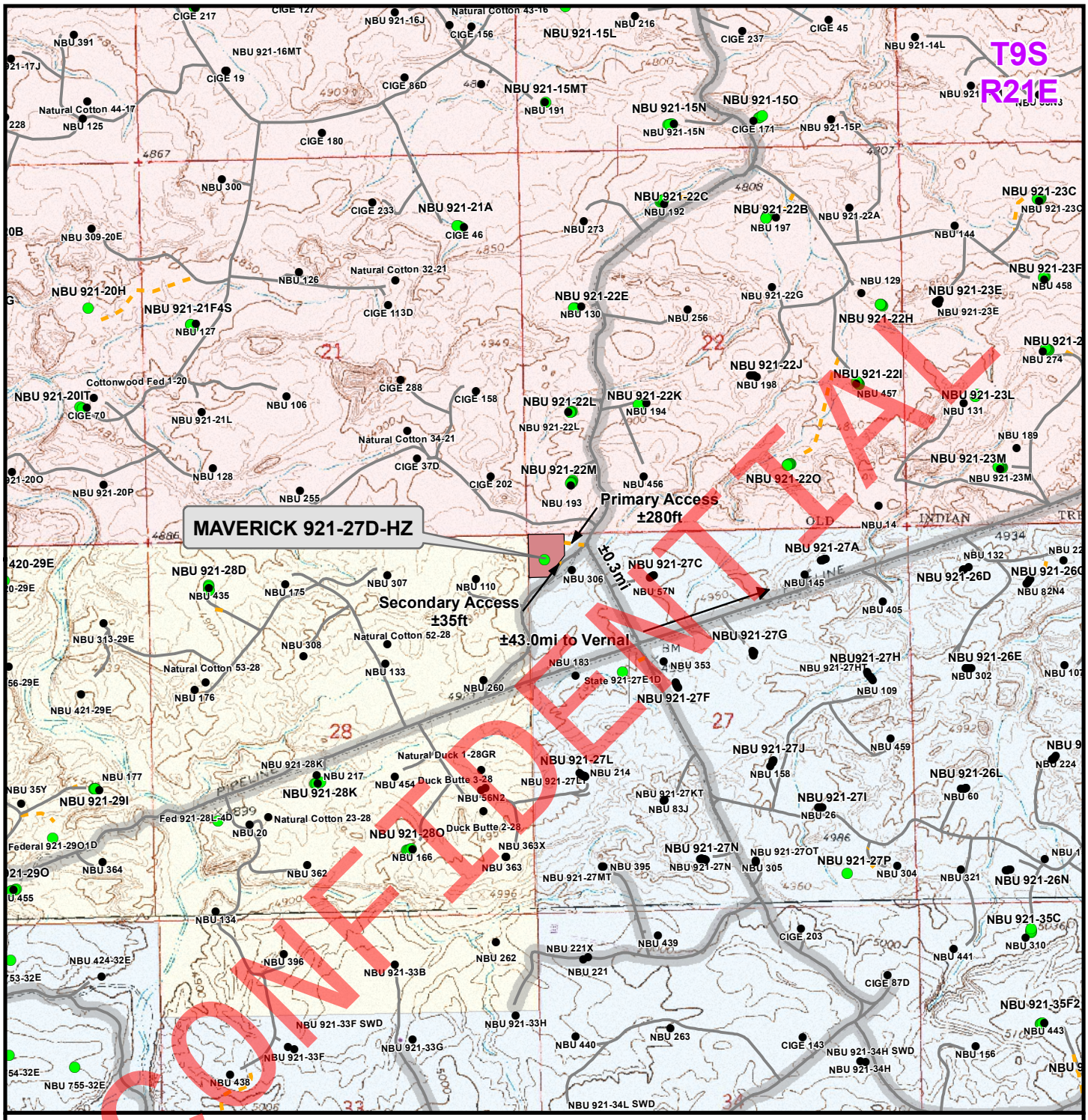
609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1:100,000	NAD83 USP Central	SHEET NO: 7
DRAWN: TL	DATE: 16 Sept 2011	7 OF 13
REVISED:	DATE:	

RECEIVED: October 04, 2011

API Well Number: 43047520510000



WELL PAD - MAVERICK 921-27D

TOPO B
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

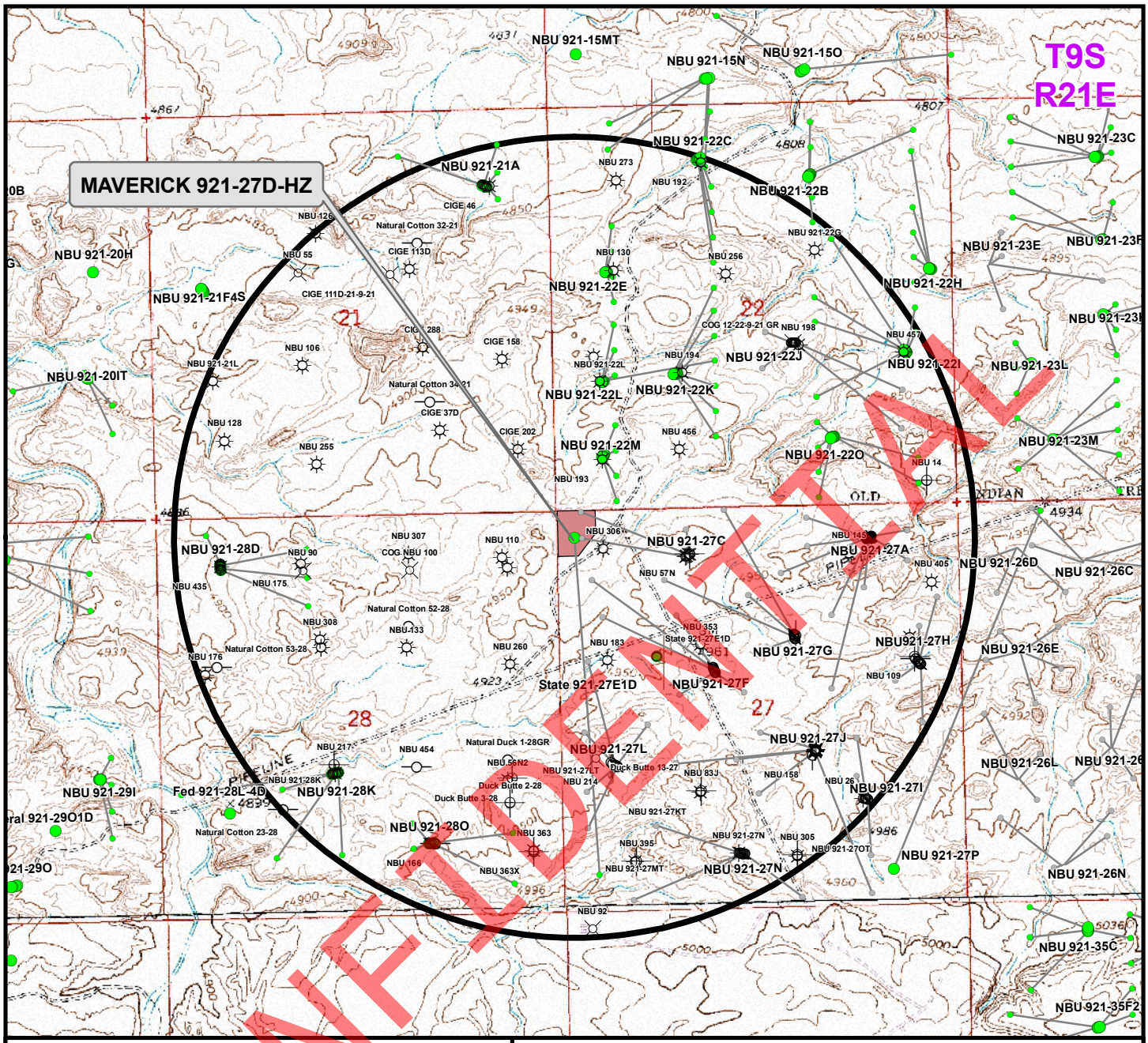
1099 18th Street
Denver, Colorado 80202

609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 8
DRAWN: TL	DATE: 16 Sept 2011	8 OF 13
REVISED:	DATE:	

RECEIVED: October 04, 2011



Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
MAVERICK 921-27D-HZ	NBU 921-27MT	500ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Well - 1 Mile Radius
- Producing
- Spudded
- APD Approved
- Preliminary Location
- Deferred
- Cancelled
- Temporarily Abandoned
- Active Injector
- Location Abandoned
- Plugged & Abandoned
- Shut-In

WELL PAD - MAVERICK 921-27D

TOPO C
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202

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Sheridan, Wyoming 82801
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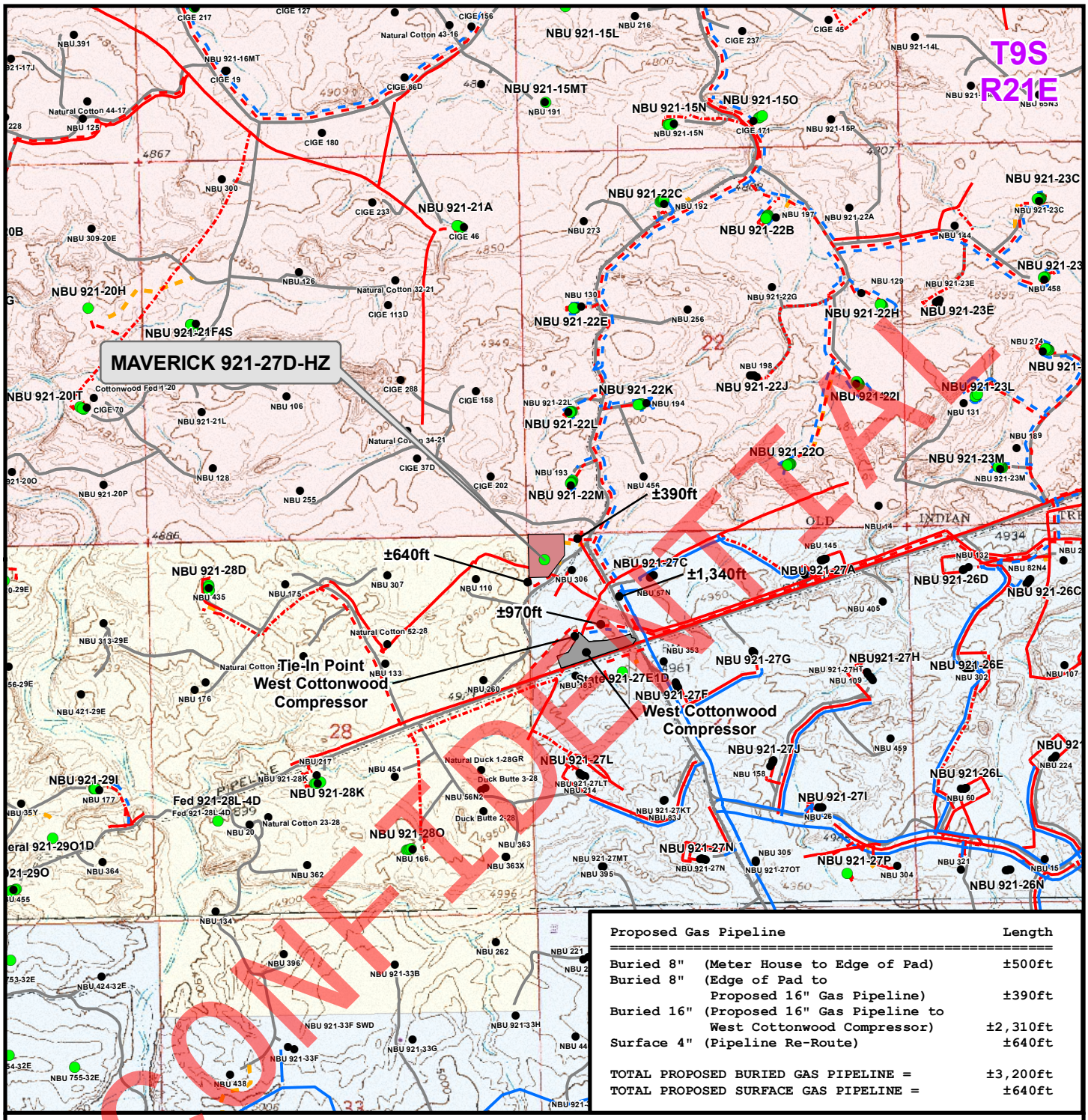
Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 9
DRAWN: TL	DATE: 16 Sept 2011	9 OF 13
REVISED:	DATE:	

RECEIVED: October 04, 2011



Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±500ft
Buried 8" (Edge of Pad to Proposed 16" Gas Pipeline)	±390ft
Buried 16" (Proposed 16" Gas Pipeline to West Cottonwood Compressor)	±2,310ft
Surface 4" (Pipeline Re-Route)	±640ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±3,200ft
TOTAL PROPOSED SURFACE GAS PIPELINE =	±640ft

Legend

Well - Proposed | Gas Pipeline - Proposed | Liquid Pipeline - Proposed | Road - Proposed | Bureau of Land Management | State
Well - Existing | Gas Pipeline - To Be Upgraded | Liquid Pipeline - Existing | Road - Existing | Indian Reservation | Private
Well Pad | Gas Pipeline - Existing

WELL PAD - MAVERICK 921-27D

TOPO D
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

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Denver, Colorado 80202

609 CONSULTING, LLC
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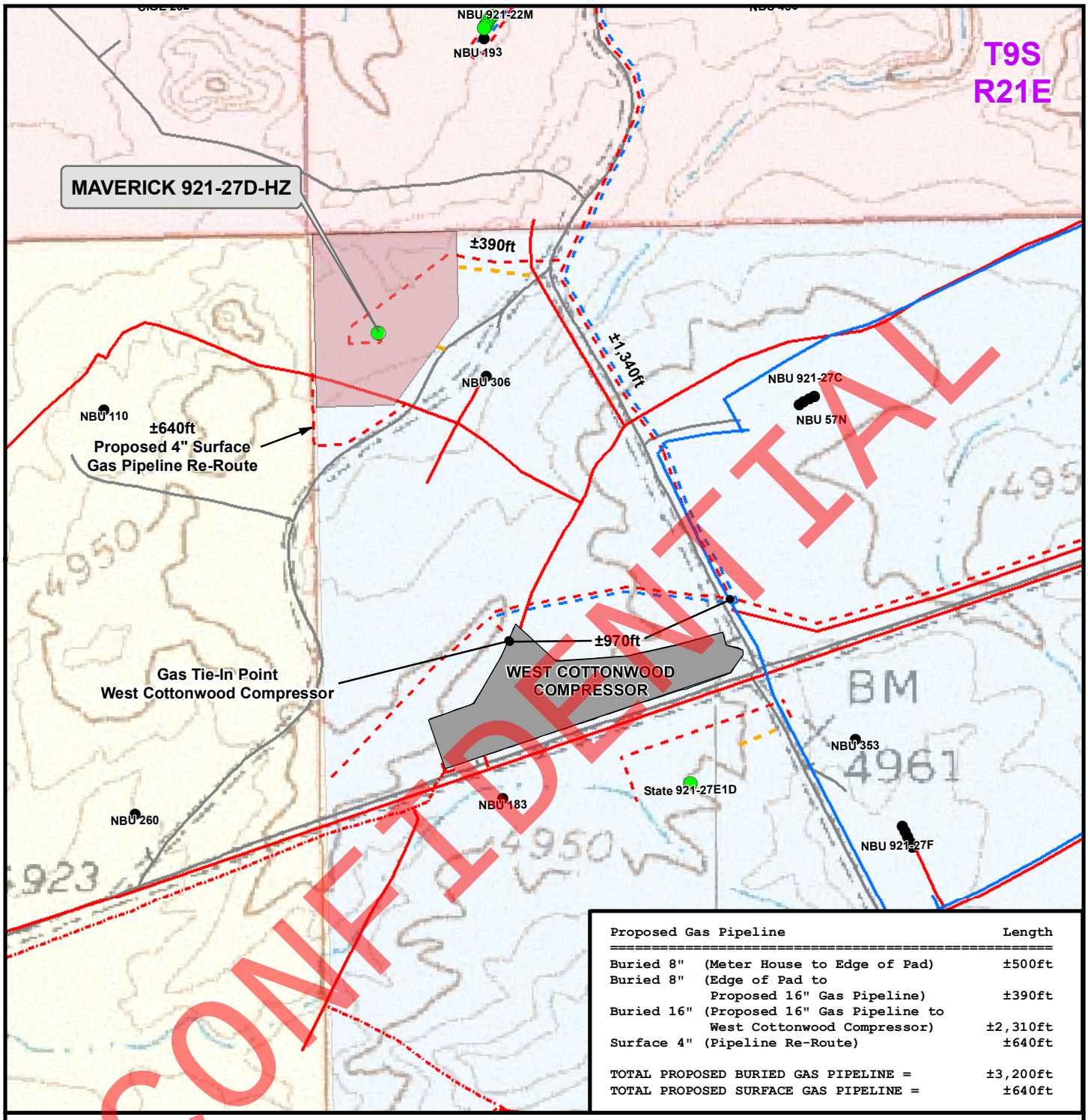
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 10
DRAWN: TL	DATE: 16 Sept 2011	10 OF 13
REVISED:	DATE:	

RECEIVED: October 04, 2011



Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±500ft
Buried 8" (Edge of Pad to Proposed 16" Gas Pipeline)	±390ft
Buried 16" (Proposed 16" Gas Pipeline to West Cottonwood Compressor)	±2,310ft
Surface 4" (Pipeline Re-Route)	±640ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±3,200ft
TOTAL PROPOSED SURFACE GAS PIPELINE =	±640ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad - Proposed
- Well Pad - Existing
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

WELL PAD - MAVERICK 921-27D

TOPO D2 (PAD & PIPELINE DETAIL)
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202

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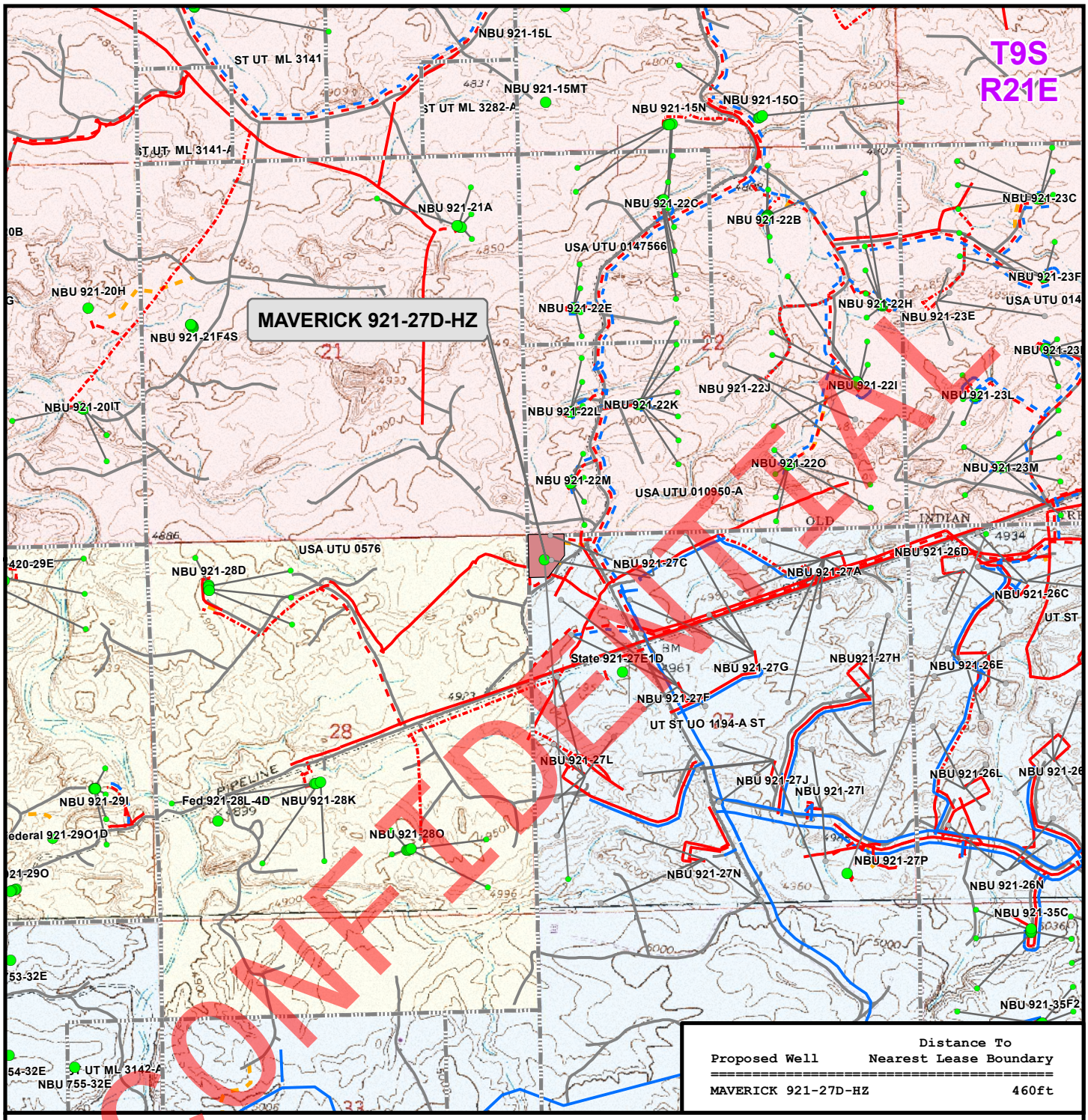
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 500ft	NAD83 USP Central	SHEET NO: 11
DRAWN: TL	DATE: 16 Sept 2011	11 OF 13
REVISED:	DATE:	

RECEIVED: October 04, 2011

API Well Number: 43047520510000



WELL PAD - MAVERICK 921-27D

TOPO E
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202

609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 12
DRAWN: TL	DATE: 16 Sept 2011	12 OF 13
REVISED:	DATE:	

RECEIVED: October 04, 2011

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – MAVERICK 921-27D
WELL – MAVERICK 921-27D-HZ
Section 27, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 1.8 miles to a second Class D County Road to the north. Exit right and proceed in a northerly direction along the second Class D County Road approximately 0.3 miles to the proposed primary access road. Follow road flags in a northwesterly direction approximately 280 feet the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 43.4 miles in a southerly direction.

RECEIVED: October 04, 2011

API Well Number: 43047520510000

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_MAVERICK 921-27D
MAVERICK 921-27D HZ

MAVERICK 921-27D HZ

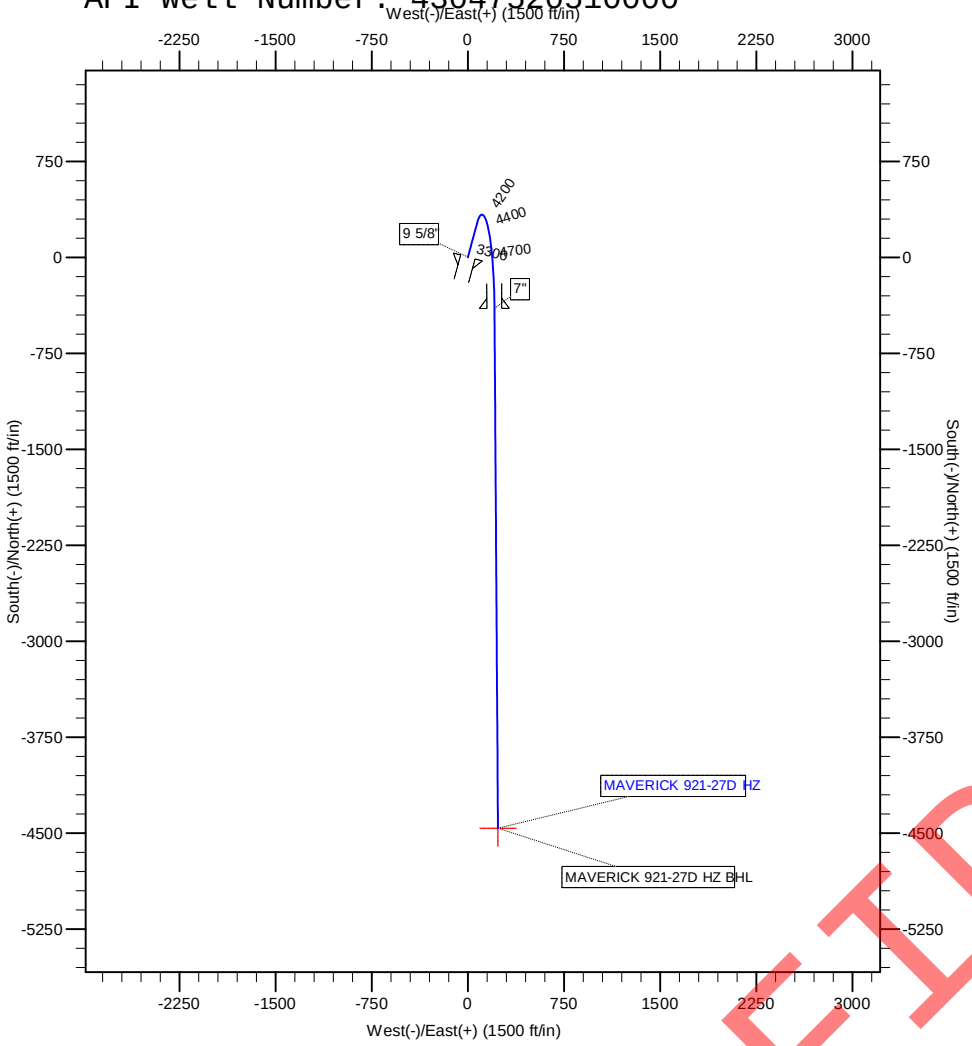
Plan: MAVERICK 921-27D HZ

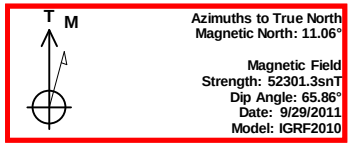
Standard Planning Report

29 September, 2011

RECEIVED: October 04, 2011

API Well Number: 43047520510000





Azimuths to True North
Magnetic North: 11.06°

Magnetic Field
Strength: 52301.3snT
Dip Angle: 65.86°
Date: 9/29/2011
Model: IGRF2010

Anadarko Petroleum Corporation

Project:	UTAH - UTM (feet), NAD27, Zone 12N
Site:	UINTAH_MAVERICK 921-27D
Well:	MAVERICK 921-27D HZ
Wellbore:	MAVERICK 921-27D HZ
Section:	
SHL:	
Design:	MAVERICK 921-27D HZ
Latitude:	40.013318
Longitude:	-109.545762
GL:	4934.00
KB:	15' rkb + 4934' GL @ 4949.00ft

WELL DETAILS: MAVERICK 921-27D HZ

Ground Level: 4934.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	14534216.91	2047616.63	40.013318	-109.545762	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2610.00	0.00	0.00	2610.00	0.00	0.00	0.00	0.00	0.00
3879.57	25.39	15.13	3838.42	267.14	72.24	2.00	15.13	-262.97
3886.26	25.39	15.13	3844.46	269.91	72.99	0.00	0.00	-265.70
5335.00	91.49	179.65	4848.00	-400.00	208.00	8.00	162.75	410.39
5352.76	91.66	179.62	4847.51	-417.75	208.11	1.00	-10.03	428.12
9397.94	91.66	179.62	4730.00	-4461.14	235.00	0.00	0.00	4467.32

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

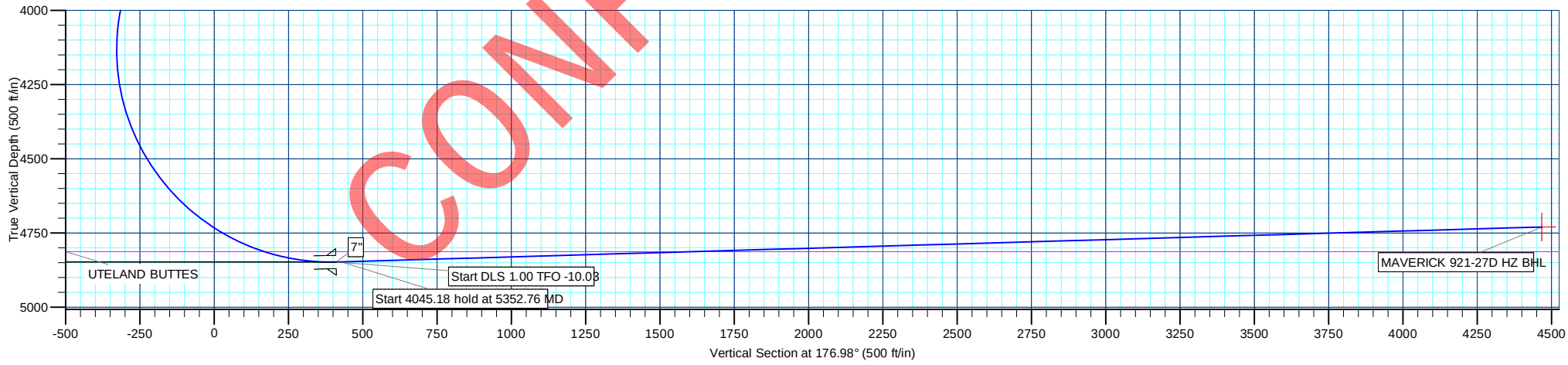
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
MAVERICK 921-27D HZ BHL	4730.00	-4461.14	235.00	40.001069	-109.544923	Point

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1573.00	1573.00	GREEN RIVER
1783.00	1783.00	BIRDS NEST
2273.00	2273.00	TOP MAHOGANY
4813.00	5089.67	UTELAND BUTTES

CASING DETAILS

TVD	MD	Name	Size
2723.00	2723.03	9 5/8"	9-5/8
4848.00	5335.00	7"	7



RECEIVED: October 04, 2011

Anadarko Petroleum Corp

Planning Report

Database:	edmp	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	15' rkb + 4934' GL @ 4949.00ft
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	15' rkb + 4934' GL @ 4949.00ft
Site:	UINTAH_MAVERICK 921-27D	**North Reference:**	True
Well:	MAVERICK 921-27D HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	MAVERICK 921-27D HZ		
Design:	MAVERICK 921-27D HZ		

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site UINTAH_MAVERICK 921-27D

Site Position:		**Northing:**	14,534,216.91 usft	**Latitude:**	40.013318
From:	Lat/Long	**Easting:**	2,047,616.63 usft	**Longitude:**	-109.545762
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.94 °

Well MAVERICK 921-27D HZ

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,534,216.91 usft	**Latitude:**	40.013318
	+E/-W	0.00 ft	**Easting:**	2,047,616.63 usft	**Longitude:**	-109.545762
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	4,934.00 ft

Wellbore MAVERICK 921-27D HZ

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/29/2011	11.06	65.86	52,301

Design MAVERICK 921-27D HZ

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	176.98

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,610.00	0.00	0.00	2,610.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,879.57	25.39	15.13	3,838.42	267.14	72.24	2.00	2.00	0.00	15.13	
3,886.26	25.39	15.13	3,844.46	269.91	72.99	0.00	0.00	0.00	0.00	
5,335.00	91.49	179.65	4,848.00	-400.00	208.00	8.00	4.56	11.36	162.75	
5,352.76	91.66	179.62	4,847.51	-417.75	208.11	1.00	0.98	-0.17	-10.03	
9,397.94	91.66	179.62	4,730.00	-4,461.14	235.00	0.00	0.00	0.00	0.00	MAVERICK 921-27D

Anadarko Petroleum Corp

Planning Report

Database:	edmp	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	15' rkb + 4934' GL @ 4949.00ft
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	15' rkb + 4934' GL @ 4949.00ft
Site:	UINTAH_MAVERICK 921-27D	**North Reference:**	True
Well:	MAVERICK 921-27D HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	MAVERICK 921-27D HZ		
Design:	MAVERICK 921-27D HZ		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,573.00	0.00	0.00	1,573.00	0.00	0.00	0.00	0.00	0.00	0.00
GREEN RIVER									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,783.00	0.00	0.00	1,783.00	0.00	0.00	0.00	0.00	0.00	0.00
BIRDS NEST									
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,273.00	0.00	0.00	2,273.00	0.00	0.00	0.00	0.00	0.00	0.00
TOP MAHOGANY									
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,610.00	0.00	0.00	2,610.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
2,700.00	1.80	15.13	2,699.99	1.36	0.37	-1.34	2.00	2.00	0.00
2,723.03	2.26	15.13	2,723.00	2.15	0.58	-2.12	2.00	2.00	0.00
9 5/8"									
2,800.00	3.80	15.13	2,799.86	6.08	1.64	-5.99	2.00	2.00	0.00
2,900.00	5.80	15.13	2,899.51	14.16	3.83	-13.94	2.00	2.00	0.00
3,000.00	7.80	15.13	2,998.80	25.59	6.92	-25.19	2.00	2.00	0.00
3,100.00	9.80	15.13	3,097.61	40.35	10.91	-39.72	2.00	2.00	0.00
3,200.00	11.80	15.13	3,195.84	58.44	15.80	-57.53	2.00	2.00	0.00
3,300.00	13.80	15.13	3,293.35	79.83	21.59	-78.58	2.00	2.00	0.00
3,400.00	15.80	15.13	3,390.03	104.48	28.25	-102.85	2.00	2.00	0.00
3,500.00	17.80	15.13	3,485.75	132.38	35.80	-130.32	2.00	2.00	0.00
3,600.00	19.80	15.13	3,580.41	163.49	44.21	-160.94	2.00	2.00	0.00
3,700.00	21.80	15.13	3,673.89	197.77	53.48	-194.68	2.00	2.00	0.00
3,800.00	23.80	15.13	3,766.07	235.18	63.60	-231.50	2.00	2.00	0.00
3,879.57	25.39	15.13	3,838.42	267.14	72.24	-262.97	2.00	2.00	0.00
Start 6.69 hold at 3879.57 MD									
3,886.26	25.39	15.13	3,844.46	269.91	72.99	-265.70	0.00	0.00	0.00
Start DLS 8.00 TFO 162.75									

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Planning Report

Database:	edmp	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	15' rkb + 4934' GL @ 4949.00ft
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	15' rkb + 4934' GL @ 4949.00ft
Site:	UINTAH_MAVERICK 921-27D	**North Reference:**	True
Well:	MAVERICK 921-27D HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	MAVERICK 921-27D HZ		
Design:	MAVERICK 921-27D HZ		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,900.00	24.34	15.92	3,856.93	275.48	74.54	-271.18	8.00	-7.62	5.76
4,000.00	16.91	24.41	3,950.48	308.59	86.22	-303.63	8.00	-7.44	8.49
4,100.00	10.31	44.30	4,047.67	328.27	98.50	-322.63	8.00	-6.60	19.89
4,200.00	7.34	95.04	4,146.61	334.12	111.13	-327.81	8.00	-2.96	50.74
4,300.00	11.35	139.76	4,245.38	326.03	123.87	-319.06	8.00	4.01	44.72
4,400.00	18.20	156.50	4,342.06	304.16	136.47	-296.56	8.00	6.84	16.74
4,500.00	25.70	164.01	4,434.77	268.94	148.69	-260.75	8.00	7.51	7.51
4,600.00	33.43	168.26	4,521.69	221.05	160.29	-212.31	8.00	7.72	4.25
4,700.00	41.25	171.05	4,601.14	161.43	171.04	-152.20	8.00	7.82	2.79
4,800.00	49.11	173.08	4,671.58	91.22	180.74	-81.59	8.00	7.87	2.03
4,900.00	57.01	174.68	4,731.63	11.81	189.19	-1.84	8.00	7.90	1.60
5,000.00	64.92	176.02	4,780.12	-75.27	196.23	85.49	8.00	7.91	1.33
5,089.67	72.03	177.08	4,813.00	-158.48	201.23	168.84	8.00	7.92	1.18
UTELAND BUTTES									
5,100.00	72.85	177.19	4,816.12	-168.32	201.72	178.70	8.00	7.93	1.12
5,200.00	80.78	178.27	4,838.91	-265.53	205.56	275.97	8.00	7.93	1.08
5,300.00	88.71	179.29	4,848.06	-365.00	207.68	375.42	8.00	7.93	1.03
5,335.00	91.49	179.65	4,848.00	-400.00	208.00	410.38	8.00	7.93	1.02
Start DLS 1.00 TFO -10.03 - 7"									
5,352.76	91.66	179.62	4,847.51	-417.75	208.11	428.12	1.00	0.99	-0.17
Start 4045.18 hold at 5352.76 MD									
5,400.00	91.66	179.62	4,846.14	-464.97	208.43	475.29	0.00	0.00	0.00
5,500.00	91.66	179.62	4,843.23	-564.92	209.09	575.14	0.00	0.00	0.00
5,600.00	91.66	179.62	4,840.33	-664.88	209.76	674.99	0.00	0.00	0.00
5,700.00	91.66	179.62	4,837.42	-764.84	210.42	774.85	0.00	0.00	0.00
5,800.00	91.66	179.62	4,834.52	-864.79	211.09	874.70	0.00	0.00	0.00
5,900.00	91.66	179.62	4,831.61	-964.75	211.75	974.55	0.00	0.00	0.00
6,000.00	91.66	179.62	4,828.71	-1,064.70	212.41	1,074.40	0.00	0.00	0.00
6,100.00	91.66	179.62	4,825.80	-1,164.66	213.08	1,174.25	0.00	0.00	0.00
6,200.00	91.66	179.62	4,822.90	-1,264.61	213.74	1,274.11	0.00	0.00	0.00
6,300.00	91.66	179.62	4,819.99	-1,364.57	214.41	1,373.96	0.00	0.00	0.00
6,400.00	91.66	179.62	4,817.09	-1,464.52	215.07	1,473.81	0.00	0.00	0.00
6,500.00	91.66	179.62	4,814.18	-1,564.48	215.74	1,573.66	0.00	0.00	0.00
6,600.00	91.66	179.62	4,811.28	-1,664.44	216.40	1,673.51	0.00	0.00	0.00
6,700.00	91.66	179.62	4,808.37	-1,764.39	217.07	1,773.37	0.00	0.00	0.00
6,800.00	91.66	179.62	4,805.47	-1,864.35	217.73	1,873.22	0.00	0.00	0.00
6,900.00	91.66	179.62	4,802.56	-1,964.30	218.40	1,973.07	0.00	0.00	0.00
7,000.00	91.66	179.62	4,799.66	-2,064.26	219.06	2,072.92	0.00	0.00	0.00
7,100.00	91.66	179.62	4,796.75	-2,164.21	219.73	2,172.78	0.00	0.00	0.00
7,200.00	91.66	179.62	4,793.85	-2,264.17	220.39	2,272.63	0.00	0.00	0.00
7,300.00	91.66	179.62	4,790.94	-2,364.12	221.05	2,372.48	0.00	0.00	0.00
7,400.00	91.66	179.62	4,788.04	-2,464.08	221.72	2,472.33	0.00	0.00	0.00
7,500.00	91.66	179.62	4,785.13	-2,564.04	222.38	2,572.18	0.00	0.00	0.00
7,600.00	91.66	179.62	4,782.23	-2,663.99	223.05	2,672.04	0.00	0.00	0.00
7,700.00	91.66	179.62	4,779.32	-2,763.95	223.71	2,771.89	0.00	0.00	0.00
7,800.00	91.66	179.62	4,776.42	-2,863.90	224.38	2,871.74	0.00	0.00	0.00
7,900.00	91.66	179.62	4,773.51	-2,963.86	225.04	2,971.59	0.00	0.00	0.00
8,000.00	91.66	179.62	4,770.61	-3,063.81	225.71	3,071.44	0.00	0.00	0.00
8,100.00	91.66	179.62	4,767.70	-3,163.77	226.37	3,171.30	0.00	0.00	0.00
8,200.00	91.66	179.62	4,764.80	-3,263.73	227.04	3,271.15	0.00	0.00	0.00
8,300.00	91.66	179.62	4,761.90	-3,363.68	227.70	3,371.00	0.00	0.00	0.00
8,400.00	91.66	179.62	4,758.99	-3,463.64	228.36	3,470.85	0.00	0.00	0.00
8,500.00	91.66	179.62	4,756.09	-3,563.59	229.03	3,570.71	0.00	0.00	0.00

Anadarko Petroleum Corp

Planning Report

Database:	edmp	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	15' rkb + 4934' GL @ 4949.00ft
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	15' rkb + 4934' GL @ 4949.00ft
Site:	UINTAH_MAVERICK 921-27D	**North Reference:**	True
Well:	MAVERICK 921-27D HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	MAVERICK 921-27D HZ		
Design:	MAVERICK 921-27D HZ		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,600.00	91.66	179.62	4,753.18	-3,663.55	229.69	3,670.56	0.00	0.00	0.00
8,700.00	91.66	179.62	4,750.28	-3,763.50	230.36	3,770.41	0.00	0.00	0.00
8,800.00	91.66	179.62	4,747.37	-3,863.46	231.02	3,870.26	0.00	0.00	0.00
8,900.00	91.66	179.62	4,744.47	-3,963.41	231.69	3,970.11	0.00	0.00	0.00
9,000.00	91.66	179.62	4,741.56	-4,063.37	232.35	4,069.97	0.00	0.00	0.00
9,100.00	91.66	179.62	4,738.66	-4,163.33	233.02	4,169.82	0.00	0.00	0.00
9,200.00	91.66	179.62	4,735.75	-4,263.28	233.68	4,269.67	0.00	0.00	0.00
9,300.00	91.66	179.62	4,732.85	-4,363.24	234.35	4,369.52	0.00	0.00	0.00
9,397.94	91.66	179.62	4,730.00	-4,461.14	235.00	4,467.32	0.00	0.00	0.00
TD at 9397.94 - MAVERICK 921-27D HZ BHL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
MAVERICK 921-27D HZ - plan hits target center - Point	0.00	0.00	4,730.00	-4,461.14	235.00	14,529,760.21	2,047,924.41	40.001069	-109.544923

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,723.03	2,723.00	9 5/8"	9-5/8	12-1/4
5,335.00	4,848.00	7"	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,573.00	1,573.00	GREEN RIVER		0.00	
1,783.00	1,783.00	BIRDS NEST		0.00	
2,273.00	2,273.00	TOP MAHOGANY		0.00	
5,089.67	4,813.00	UTELAND BUTTES		0.00	

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
2,610.00	2,610.00	0.00	0.00	Start Build 2.00
3,879.57	3,838.42	267.14	72.24	Start 6.69 hold at 3879.57 MD
3,886.26	3,844.46	269.91	72.99	Start DLS 8.00 TFO 162.75
5,335.00	4,848.00	-400.00	208.00	Start DLS 1.00 TFO -10.03
5,352.76	4,847.51	-417.75	208.11	Start 4045.18 hold at 5352.76 MD
9,397.94	4,730.00	-4,461.14	235.00	TD at 9397.94

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MAVERICK 921-27D-HZ

Surface:	384 FNL / 252 FWL	NWNW
BHL:	460 FSL / 460 FWL	SWSW

Mineral Lease: UT ST UO 1194A ST

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including but not limited to, APDs/SULAs/ROEs/ROWs and/or easements.)

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county and improved/unimproved lease roads. KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

Two New Access roads are proposed. (see Topo Map B). The Primary Access road length will be 280' +/-. The Secondary Access road length will be 35' +/- and will be fully reclaimed upon completion of the well. Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

If there are roads that are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

During the onsite, turnouts, major cut and fills, culverts, bridges, gates, cattle guards, low water crossings, or modifications needed to existing infrastructure/facilities were determined, as applicable, are typically shown on attached Exhibits and Topo maps.

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C. Location of Existing and Proposed Facilities:

This will be a new pad.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of the well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Gathering Facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point at the West Cottonwood Compressor is ±3200' and the individual segments are broken up as follows:

±500' (0.09 miles) –New 8" buried gas pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.
±390' (0.07 miles) –New 8" buried gas pipeline from the edge of pad to the proposed 16" gas gathering Pipeline. Please refer to Topo D2 - Pad and Pipeline Detail.
±2,310' (0.4 miles) –New 16" buried gas pipeline from the 8" tie-in to the West Cottonwood Compressor. Please refer to Topo D2 - Pad and Pipeline Detail.

An existing 4" Surface Gas Pipeline will be re-routed around the pad. The total distance of the re-route will be ±640 Please refer to Topo D2-Pad and Pipeline Detail.

Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. KMG requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, KMG requests a temporary 45' construction right-of-way 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity and ownership, as well as to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

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E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods for Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Unless otherwise approved, no oil or other oil based drill additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water, biodegradable polymer soap, bentonite clay, and /or non-toxic additives will be used in the system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions, or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be release into the pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternative is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as the hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods. (e.g. solidification)

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Any additional pits necessary for subsequent operations, such as temporary flare pits, or workover pits, will contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of the work.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, including accidental release of fluids, or release in excess of reportable quantities, will be managed according to the notification requirements of UDOGMs “Reporting Oil and Gas Undesirable Events” rule. Where State wells are participatory to a Federal agreement, according to NTL-3A, the appropriate Federal agencies will be notified.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term “hazardous materials” as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/ egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1927 (NAD27) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/

completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

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All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

L. Other Information:

None

M. Lessee's or Operators' Representative & Certification:

Andy Lytle
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6100

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LPis considered to be the operator of the subject well.Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

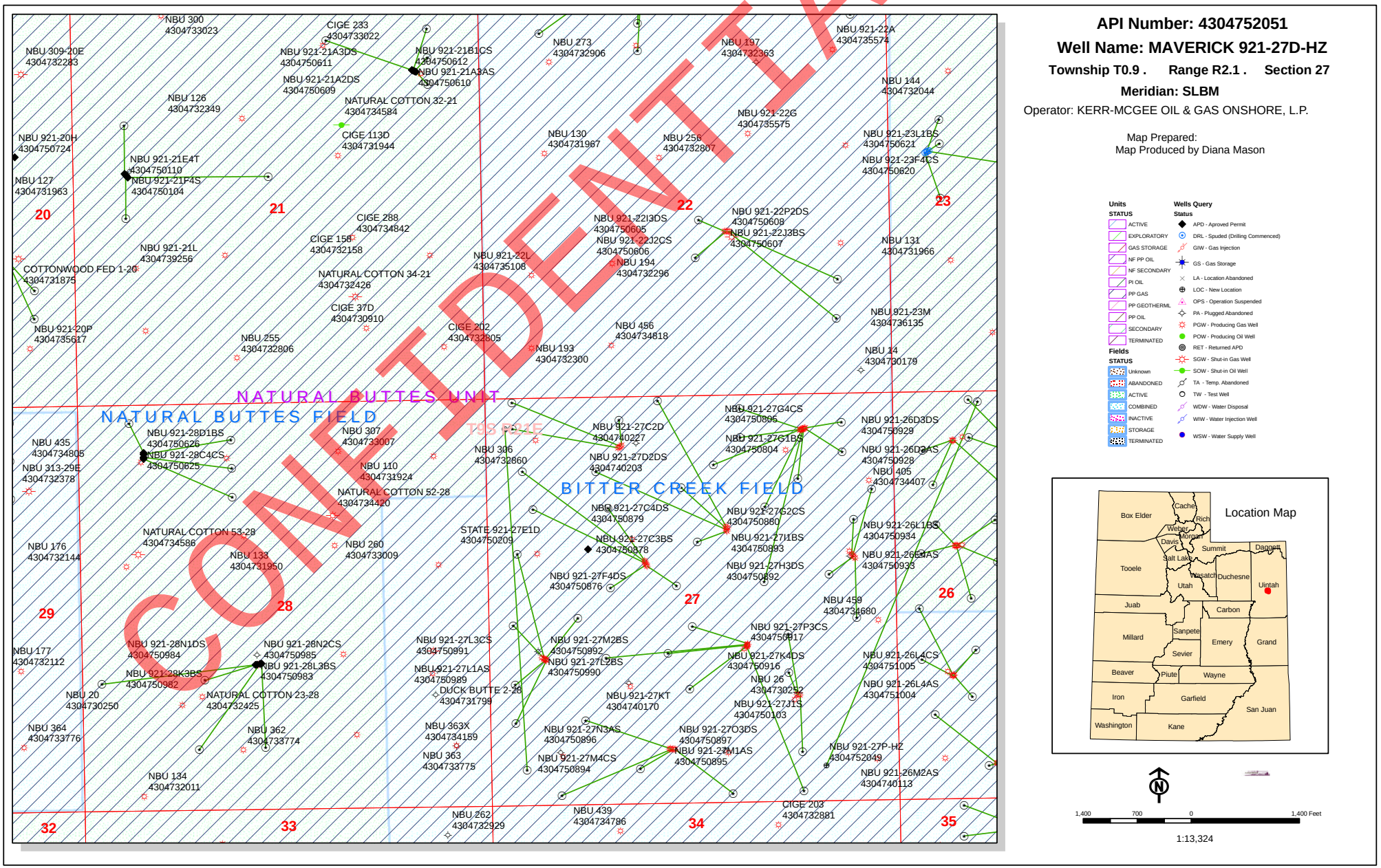
Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Andy Lytle

October 4, 2011
Date

API Well Number: 43047520510000



API Number: 4304752051

Well Name: MAVERICK 921-27D-HZ

Township T0.9 . Range R2.1 . Section 27

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
ACTIVE
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED

Fields
STATUS
Unknown
ABANDONED
ACTIVE
COMBINED
INACTIVE
STORAGE
TERMINATED

Wells Query
Status
APD - Aproved Permit
DRL - Spuded (Drilling Commenced)
GIW - Gas Injection
GS - Gas Storage
LA - Location Abandoned
LOC - New Location
OPS - Operation Suspended
PA - Plugged Abandoned
PGW - Producing Gas Well
POW - Producing Oil Well
RET - Returned APD
SGW - Shut-in Gas Well
SOW - Shut-in Oil Well
TA - Temp. Abandoned
TW - Test Well
WDW - Water Disposal
WIW - Water Injection Well
WSW - Water Supply Well

1,400 700 0 1,400 Feet

1:13,324

RECEIVED: October 06, 2011

From: Jim Davis
To: Bonner, Ed; Garrison, LaVonne; Hackford, David; Hill, Brad; Mason, D...
CC: Julie Jacobsen; Lytle, Andy
Date: 10/17/2011 4:33 PM
Subject: APD approvals

The following APD have been approved by SITLA including arch clearance. Paleo clearance is granted with the following stipulations as recommended in the paleo reports. The NBU 921-27P-HZ will require full paleo monitoring, the MAVERICK 921-26B-HZ and MAVERICK 921-27D-HZ will require spot monitoring.

4304752049	NBU 921-27P-HZ
4304752050	MAVERICK 921-26B-HZ
4304752051	MAVERICK 921-27D-HZ

Thanks.
-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

RECEIVED: October 18, 2011

API Well Number: 43047520510000

BOPE REVIEW KERR-MCGEE OIL & GAS ONSHORE, L.P. MAVERICK 921-27D-HZ 43047520510000

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. MAVERICK 921-2			
String	SURF	I1	L1	
Casing Size(")	9.625	7.000	4.500	
Setting Depth (TVD)	2723	4848	4730	
Previous Shoe Setting Depth (TVD)	0	2723	4848	
Max Mud Weight (ppg)	8.4	11.0	10.0	
BOPE Proposed (psi)	500	5000	5000	
Casing Internal Yield (psi)	3520	9950	10690	
Operators Max Anticipated Pressure (psi)	2081		8.5	

Calculations	SURF String	9.625	"	
Max BHP (psi)	.052*Setting Depth*MW=	1189		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	862	NO	air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	590	NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	590	NO	OK for area
Required Casing/BOPE Test Pressure=		2464	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi	*Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"	
Max BHP (psi)	.052*Setting Depth*MW=	2773		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2191	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1706	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2306	YES	OK
Required Casing/BOPE Test Pressure=		4848	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		2723	psi	*Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"	
Max BHP (psi)	.052*Setting Depth*MW=	2460		
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1892	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1419	YES	OK
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2486	YES	OK
Required Casing/BOPE Test Pressure=		4730	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		4848	psi	*Assumes 1psi/ft frac gradient

Calculations	String		"	
Max BHP (psi)	.052*Setting Depth*MW=			
			BOPE Adequate For Drilling And Setting Casing at Depth?	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			*Can Full Expected Pressure Be Held At Previous Shoe?	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	

RECEIVED: December 29, 2011

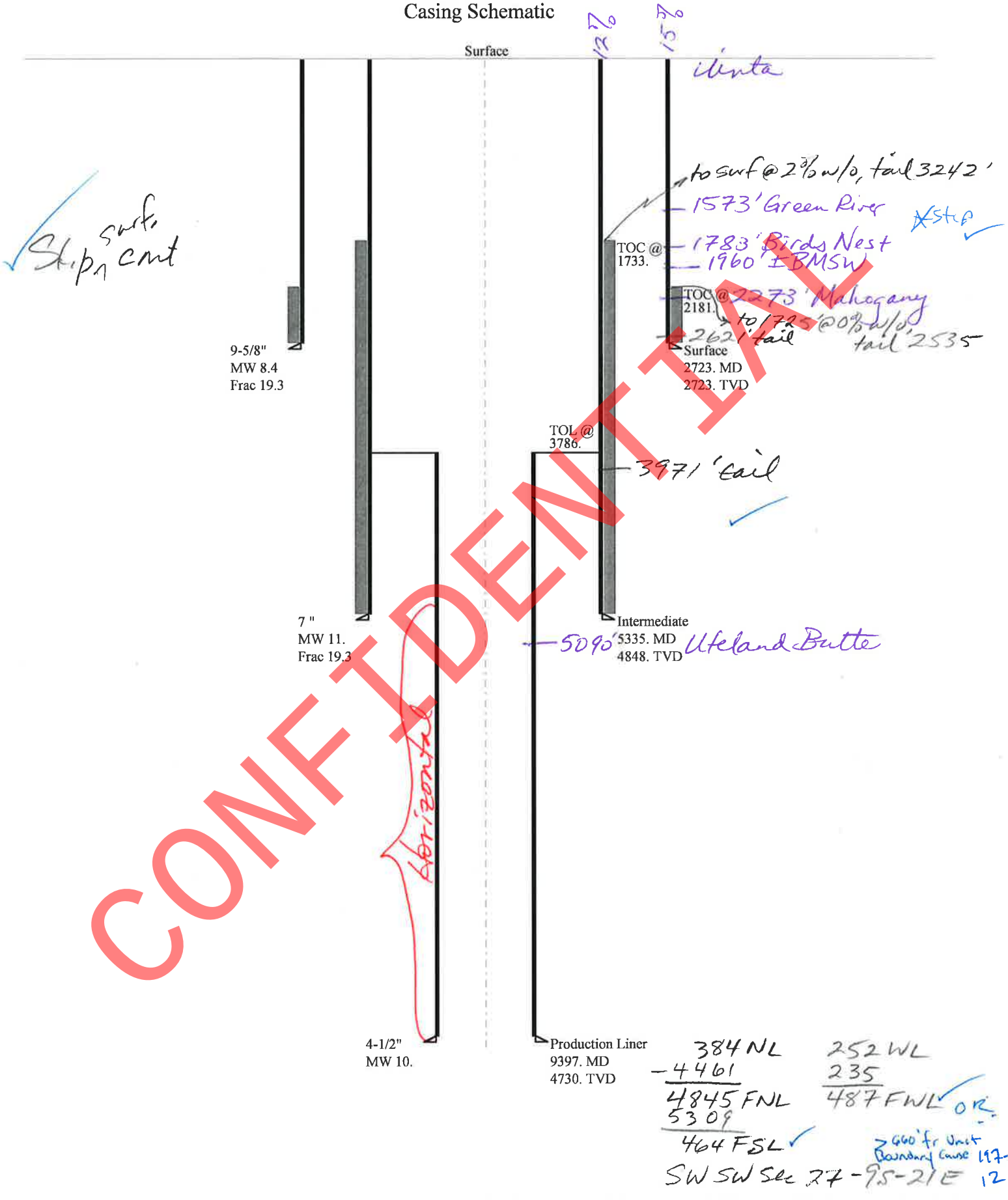
***Max Pressure Allowed @ Previous Casing Shoe=**		psi *Assumes 1psi/ft frac gradient

RECEIVED: December 29, 2011

API Well Number: 43047520510000

43047520510000 MAVERICK 921-27D-HZ

Casing Schematic



API Well Number: 43047520510000

Well name:	43047520510000 MAVERICK 921-27D-HZ
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.
String type:	Surface
Project ID:	43-047-52051
Location:	UINTAH COUNTY

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 2,189 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,515 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,385 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 112 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 2,181 ft

Directional Info - Build & Hold
Kick-off point 2610 ft
Departure at shoe: 2 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 2.26 °

Re subsequent strings:
Next setting depth: 4,848 ft
Next mud weight: 11.000 ppg
Next setting BHP: 2,770 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,723 ft
Injection pressure: 2,723 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	2723	9.625	36.00	J-55	LT&C	2723	2723	8.796	22267

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1188	1974	1.662	2515	3520	1.40	98	453	4.62 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 28,2011
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2723 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

API Well Number: 43047520510000

Well name:	**43047520510000 MAVERICK 921-27D-HZ**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Intermediate
Project ID:	43-047-52051
Location:	UINTAH COUNTY

Design parameters:

Collapse
Mud weight: 11.000 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 3,754 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 4,336 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 4,117 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 142 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,733 ft

Directional Info - Build & Hold
Kick-off point 2610 ft
Departure at shoe: 451 ft
Maximum dogleg: 8 °/100ft
Inclination at shoe: 91.49 °

Re subsequent strings:
Next setting depth: 9,397 ft
Next mud weight: 10.000 ppg
Next setting BHP: 4,882 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 5,335 ft
Injection pressure: 5,335 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	5335	7	26.00	HCP-110	LT&C	4848	5335	6.151	55457

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2770	7530	2.718	4336	9950	2.29	126	693	5.50 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 28,2011
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 4848 ft, a mud weight of 11 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**43047520510000 MAVERICK 921-27D-HZ**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Production Liner
Project ID:	43-047-52051
Location:	UINTAH COUNTY

Design parameters:

Collapse
Mud weight: 10.000 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,417 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 2,457 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 4,877 ft

Estimated cost: 61,497 ($)

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 140 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Liner top: 3,786 ft
Directional Info - Build & Hold
Kick-off point 2610 ft
Departure at shoe: 4466 ft
Maximum dogleg: 8 °/100ft
Inclination at shoe: 91.66 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
2	1600	4.5	11.60	HCP-110	DQX	4846	5400	3.875	42240
1	3997	4.5	11.60	HCP-110	LT&C	4730	9397	3.875	19257

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
2	2517	8650	3.436	2483	10690	4.31	11.2	367.2	32.83 B
1	2457	8650	3.520	2483	10690	4.31	-1.3	279	99.99 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: December 28,2011
Salt Lake City, Utah

Remarks:
For this liner string, the top is rounded to the nearest 100 ft.Collapse is based on a vertical depth of 4730 ft, a mud weight of 10 ppg The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name MAVERICK 921-27D-HZ
API Number 43047520510000 **APD No** 4738 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NWNW **Sec** 27 **Tw** 9.0S **Rng** 21.0E 384 FNL 252 FWL
GPS Coord (UTM) 624116 4430041 **Surface Owner**

Participants

Andy Lytle, Sheila Wopsock, Charles Chase, Grizz Oleen, Jaime Scharnowski, Doyle Holmes, (Kerr McGee). John Slaugh, Mitch Batty, (Timberline). Jim Davis (SITLA). Ben Williams (DWR). David Hackford, (DOGM).

Regional/Local Setting & Topography

This is a proposed single well location. Both the surface and minerals are owned by SITLA. The general area is the central portion of the Natural Buttes Unit in a major un-named drainage west of the lower portion of the Sand Wash drainage of Uintah, County, approximately 25 air miles and 43 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the area is characterized by open flats bordered or dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. There is an occasional constructed pond furnishing water for antelope and livestock.

Surface Use Plan

Current Surface Use
Wildlfe Habitat
Grazing

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.2	**Width** 500 **Length** 600	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Prickly pear, wild onion, shadscale, mat saltbrush, Indian ricegrass, halogeton, pepper grass, annuals and curly Vegetation is a salt desert shrub type. Principal species present are cheatgrass, black sagebrush, stipa, mesquite grass.

Sheep, antelope, coyote, raptors, small mammals and birds.

Soil Type and Characteristics

Rocky sandy clay loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? Y

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors **Site Ranking**

Distance to Groundwater (feet)
Distance to Surface Water (feet)
Dist. Nearest Municipal Well (ft)
Distance to Other Wells (feet)
Native Soil Type
Fluid Type
Drill Cuttings
Annual Precipitation (inches)
Affected Populations
Presence Nearby Utility Conduits

Final Score Sensitivity Level

Characteristics / Requirements

This well will not have a reserve pit.

Closed Loop Mud Required? Y **Liner Required?** **Liner Thickness** **Pit Underlayment Required?**

Other Observations / Comments

Anadarko proposes to drill this well with a horizontal section of the well bore reaching approx. .75 miles. The pad will be approx. ten acres in size. This excess size will be necessary to accommodate 180 frac tanks during the initial completion of the well. Because of the anticipated congestion, two access roads will be necessary.

David Hackford
Evaluator

10/12/2011
Date / Time

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
4738	43047520510000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		**Surface Owner-APD**		
Well Name	MAVERICK 921-27D-HZ		**Unit**		
Field	NATURAL BUTTES		**Type of Work**	DRILL	
Location	NWNW 27 9S 21E S 384 FNL 252 FWL GPS Coord (UTM) 624062E 4430232N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,719’ of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 1,960'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 27. The well is listed as 200 feet deep and used for oilfield drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect any usable ground water.

Brad Hill — **APD Evaluator**

10/18/2011 — **Date / Time**

Surface Statement of Basis

This is a proposed single well location. Both the surface and minerals are owned by SITLA. The general area is the central portion of the Natural Buttes Unit in a major un-named drainage west of the lower portion of the Sand Wash drainage of Uintah, County, approximately 25 air miles and 43 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the area is characterized by open flats bordered or dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. There is an occasional constructed pond furnishing water for antelope and livestock.

David Hackford — **Onsite Evaluator**

10/12/2011 — **Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A closed loop mud circulation system is required for this location.

RECEIVED: February 21, 2012

API Well Number: 43047520510000

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/4/2011 **API NO. ASSIGNED:** 43047520510000

WELL NAME: MAVERICK 921-27D-HZ

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6100

CONTACT: Andy Lytle

PROPOSED LOCATION: NWNW 27 090S 210E **Permit Tech Review:** ☑

SURFACE: 0384 FNL 0252 FWL **Engineering Review:** ☑

BOTTOM: 0460 FSL 0460 FWL **Geology Review:** ☑

COUNTY: UINTAH

LATITUDE: 40.01318 **LONGITUDE:** -109.54635

UTM SURF EASTINGS: 624062.00 **NORTHINGS:** 4430232.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UT ST UO 1194A ST **PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

SURFACE OWNER: 3 - State **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE - 22013542
- ☐ **Potash**
- ☑ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit:

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 197-12

Effective Date: 1/9/2012

Siting: *See order

- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmacdonald
27 - Other - bhill

RECEIVED: February 21, 2012

GARY R. HERBERT
Governor
GREGORY S. BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: MAVERICK 921-27D-HZ
API Well Number: 43047520510000
Lease Number: UT ST UO 1194A ST
Surface Owner: STATE
Approval Date: 2/21/2012

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 197-12. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

API Well No: 43047520510000

Additional Approvals:
The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
  801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
  801-231-8956 - after office hours

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

API Well No: 43047520510000

Approved By:

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 1194A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: MAVERICK 921-27D-HZ

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047520510000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0384 FNL 0252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 4/26/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee respectfully requests to revise the pad lay out for the Maverick 921-27D-HZ well location. We would like to update the original plan by constructing one 75' X 75' pit to store cuttings during drilling operations and one 250' x 110' pit for completion operations. Please note there will be NO additional disturbance from the original approval. Please find attached a diagram of our requested changes. Please note that SITLA has been notifed of this request and has granted their approval. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: April 26, 2012

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 4/26/2012

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

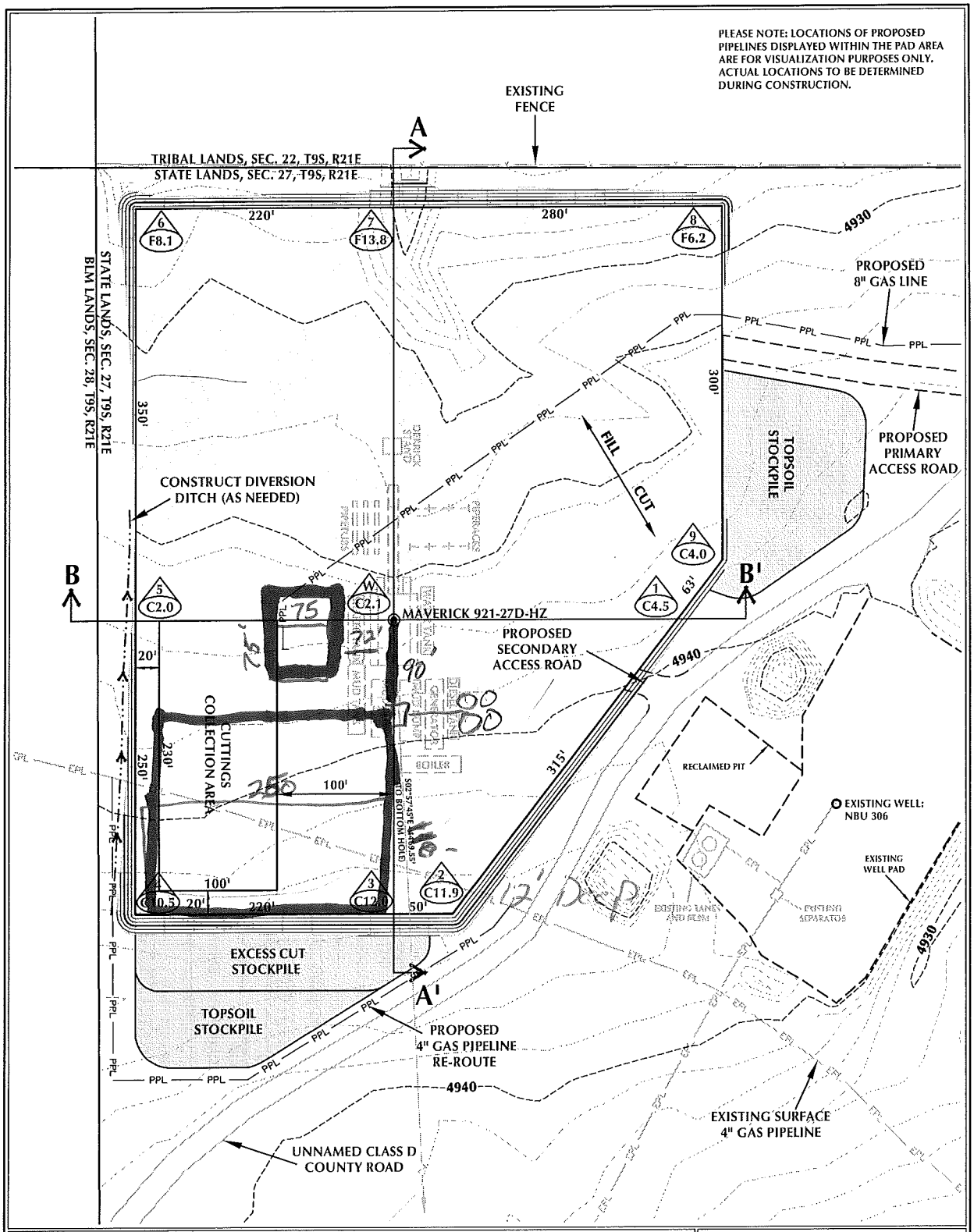
Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047520510000

A synthetic liner with a minimum thickness of 16 mils with a felt subliner if needed shall be properly installed and maintained in the reserve pit.

RECEIVED: Apr. 26, 2012

API Well Number: 43047520510000



WELL PAD - MAVERICK 921-27D DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4935.7'
FINISHED GRADE ELEVATION = 4933.6'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 6.59 ACRES
TOTAL DISTURBANCE AREA = 7.49 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 21,950 C.Y.
TOTAL FILL FOR WELL PAD = 20,866 C.Y.
TOPSOIL @ 6" DEPTH = 5,313 C.Y.
EXCESS MATERIAL = 1,084 C.Y.

CUTTINGS COLLECTION AREA QUANTITIES

TOTAL CUT FOR CUTTINGS COLLECTION AREA
+/- 745 C.Y.

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 40' 80' 1" = 80'
2' CONTOURS

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

WELL PAD - LOCATION LAYOUT
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

SCALE: 1"=80' | DATE: 9/16/11 | SHEET NO: 3 3 OF 13
REVISED:

Received: October 04, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 1194A

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
MAVERICK 921-27D-HZ

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047520510000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0384 FNL 0252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 21.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 5/17/2012	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON DATE 05/17/2012 AT TIME 9:00 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
May 18, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cara Mahler	720 929-6029	Regulatory Analyst I
SIGNATURE		**DATE**
N/A		5/18/2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217
Phone Number: (720) 929-6029

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752051	MAVERICK 921-27D-HZ		NWNW	27	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	18542	5/17/2012			5/21/2012	

Comments: MIRU BUCKET RIG.
SPUD WELL LOCATION ON 5/17/2012 AT 9:00 HRS. GRRV CONFIDENTIAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

ACTION CODES:
- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

CARA MAHLER
Name (Please Print)

Signature

REGULATORY ANALYST
Title

5/18/2012
Date

RECEIVED
MAY 21 2012
Div. of Oil, Gas & Mining

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 1194A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: MAVERICK 921-27D-HZ

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047520510000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0384 FNL 0252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 5/27/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU AIR RIG ON 5/24/2012. DRILLED SURFACE HOLE TO 2530'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 29, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cara Mahler	720 929-6029	Regulatory Analyst I
SIGNATURE N/A		**DATE** 5/29/2012

RECEIVED: May. 29, 2012

SUBMIT AS EMAIL | Print Form

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By J. Scharnowske Phone Number 720.929.6304
Well Name/Number MAVERICK 921-27D-HZ
Qtr/Qtr NWNW Section 27 Township 9S Range 21E
Lease Serial Number UT ST UO 1194A ST
API Number 4304752051

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 05/17/2012 07:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☑ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

RECEIVED
MAY 16 2012
DIV. OF OIL, GAS & MINING

Date/Time 05/23/2012 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT 435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 1194A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: MAVERICK 921-27D-HZ

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047520510000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0384 FNL 0252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/31/2012	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	✓ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator would like to move the bottom hole location of this well to allow for a longer lateral. Attached are the updated survey plat, drilling survey, and 10 point drilling plan. Please note that the survey plat reflects the 4/26/2012 approved sundry for constructing one 75' x 75' pit to store cuttings during drilling operations, and one 250' x 110' pit for completion operations. Outside the request to lengthen the lateral and move the bottom hole location, there will be no additional disturbance from the original approval. Thank you.

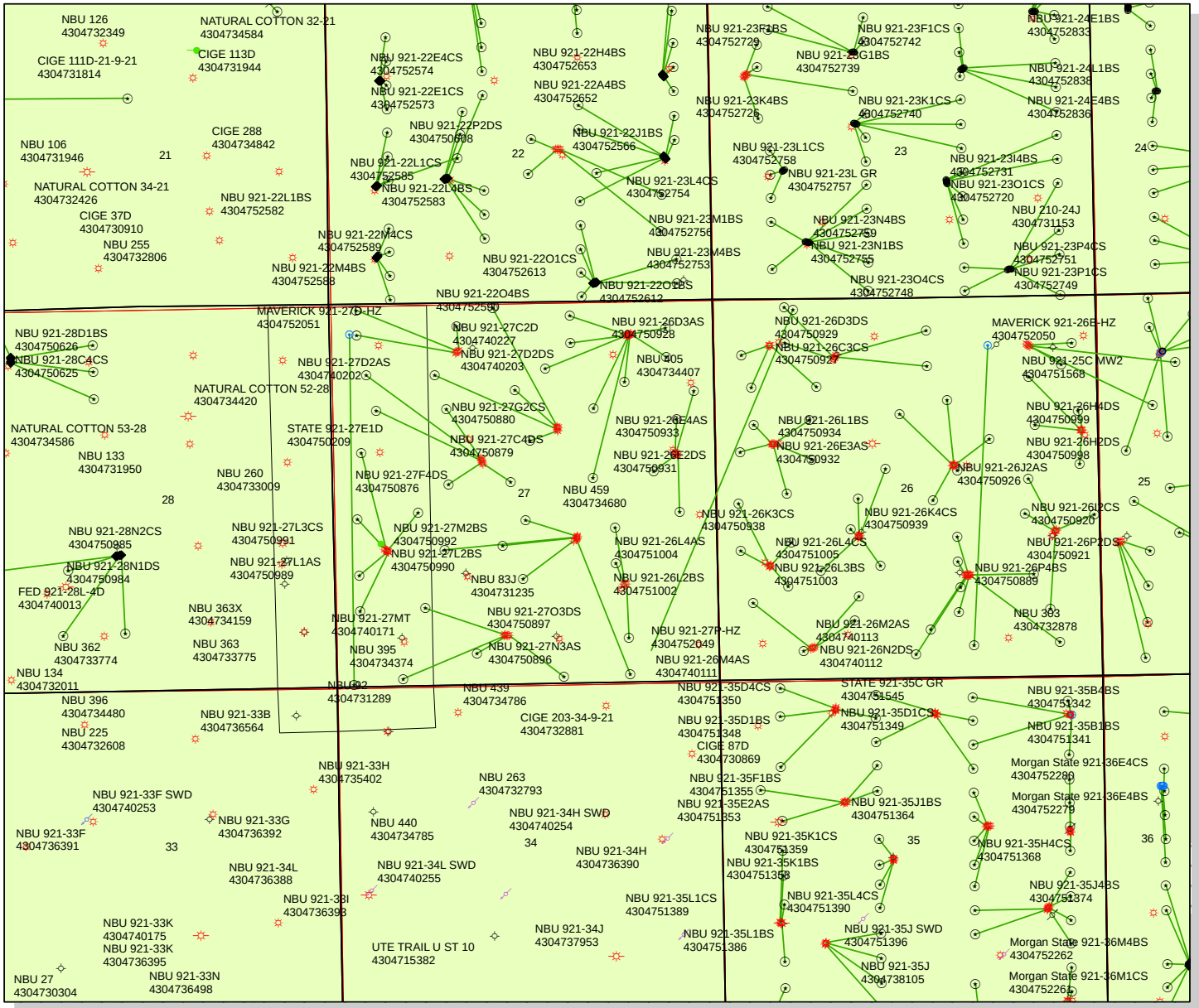
Approved by the Utah Division of Oil, Gas and Mining

Date: June 18, 2012

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 5/31/2012

RECEIVED: May. 31, 2012



API Number: 4304752051

Well Name: MAVERICK 921-27D-HZ

Township T0.9 . Range R2.1 . Section 27

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

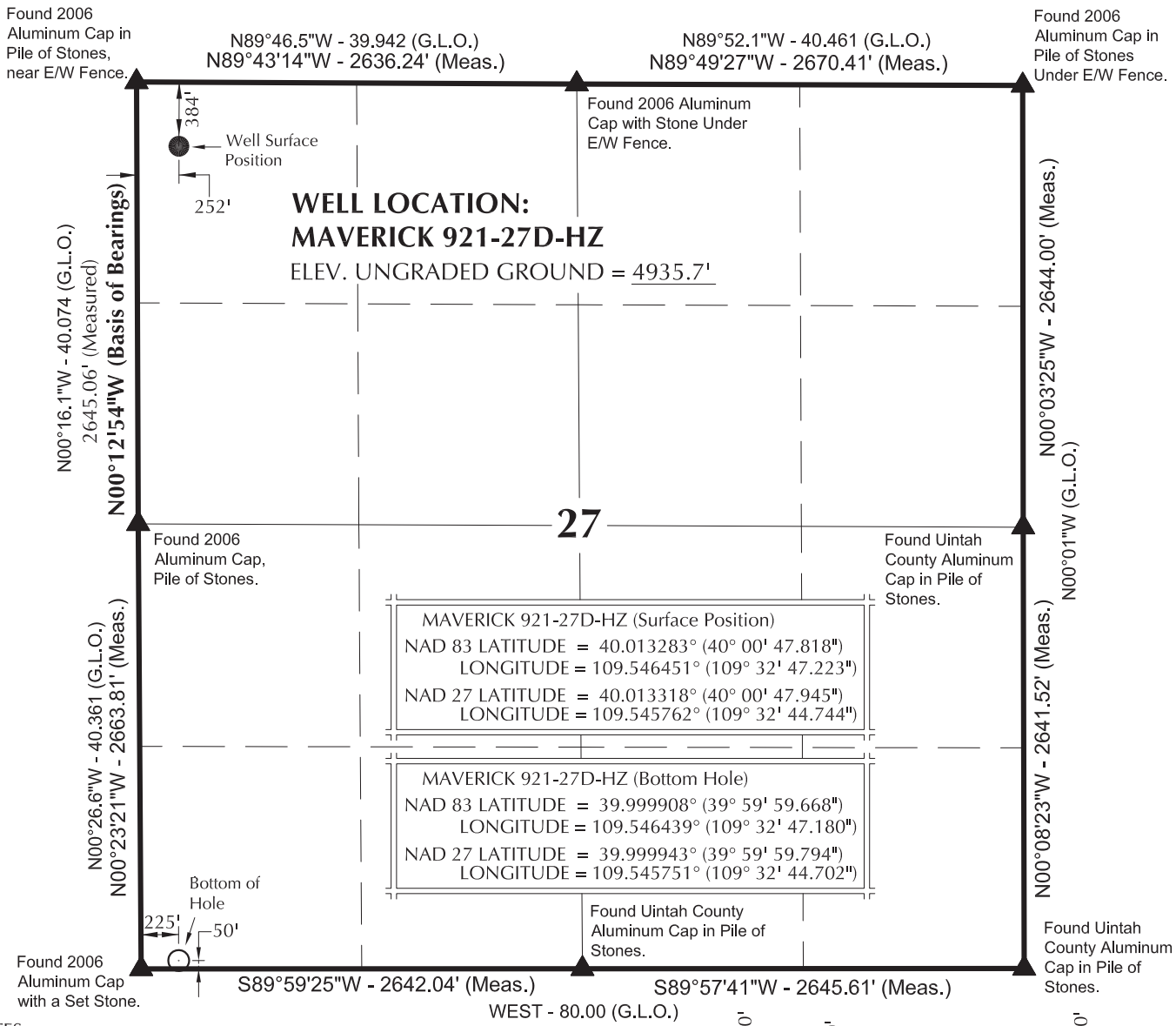
Wells Query
Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

1.750 875 0 1,750 Feet

1:17,106

RECEIVED: Jun. 13, 2012

T9S, R21E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears S00°00'52"W 4873.61' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

5-17-12

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

MAVERICK 921-27D-HZ
WELL PLAT
50' FSL, 225' FWL (Bottom Hole)
SW ¼ SW ¼ OF SECTION 27, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

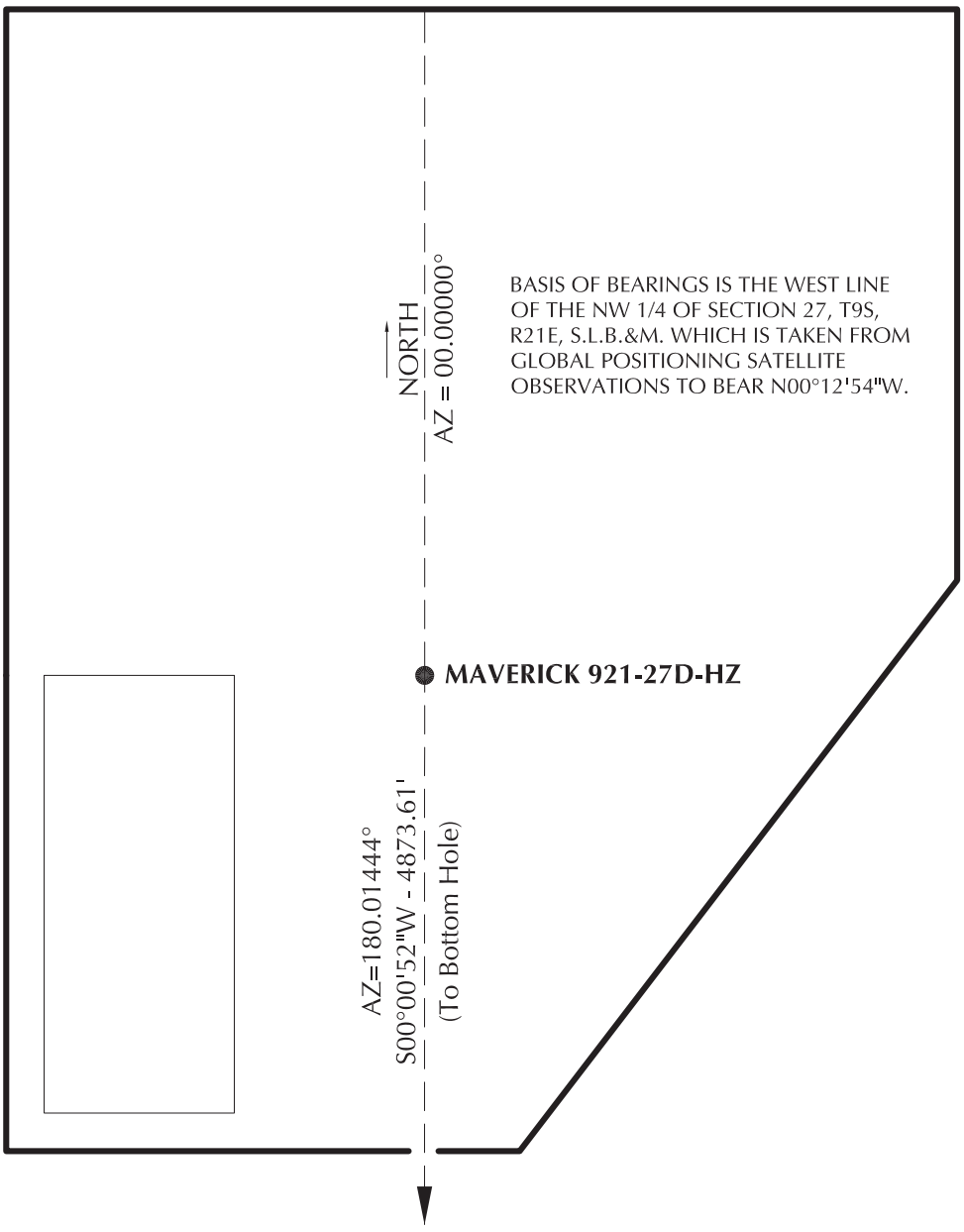
609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 09-09-11	SURVEYED BY: M.S.B.	SHEET NO: 1
DATE DRAWN: 09-13-11	DRAWN BY: M.W.W.	1 OF 13
SCALE: 1" = 1000'	Date Last Revised: 5-16-12 T.J.R.	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
MAVERICK 921-27D-HZ	40°00'47.818" 40.013283°	109°32'47.223" 109.546451°	40°00'47.945" 40.013318°	109°32'44.744" 109.545762°	384' FNL 252' FWL	39°59'59.668" 39.999908°	109°32'47.180" 109.546439°	39°59'59.794" 39.999943°	109°32'44.702" 109.545751°	50' FSL 225' FWL

RELATIVE COORDINATES From Surface Position to Bottom Hole		
WELL NAME	NORTH	EAST
MAVERICK 921-27D-HZ	-4,873.6	-1.2



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

WELL PAD INTERFERENCE PLAT
WELL - MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

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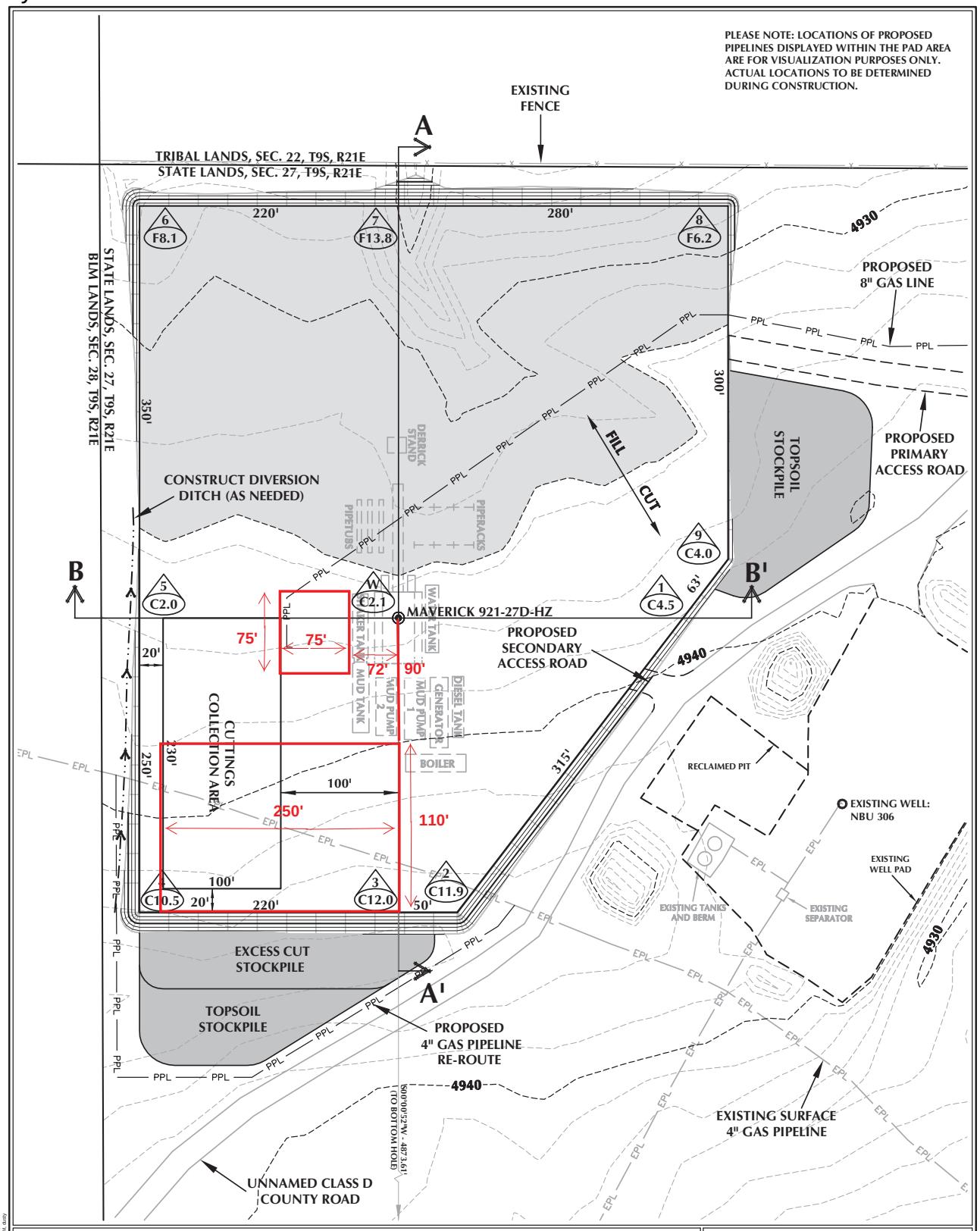
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 09-09-11	SURVEYED BY: M.S.B.	SHEET NO: 2
DATE DRAWN: 09-13-11	DRAWN BY: M.W.W.	2 OF 13
SCALE: 1" = 100'	Date Last Revised: 5-16-12 T.J.R.	



WELL PAD - MAVERICK 921-27D DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4935.7'
FINISHED GRADE ELEVATION = 4933.6'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 6.59 ACRES
TOTAL DISTURBANCE AREA = 7.49 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 21,950 C.Y.
TOTAL FILL FOR WELL PAD = 20,866 C.Y.
TOPSOIL @ 6" DEPTH = 5,313 C.Y.
EXCESS MATERIAL = 1,084 C.Y.

CUTTINGS COLLECTION AREA QUANTITIES

TOTAL CUT FOR CUTTINGS COLLECTION AREA
+/- 745 C.Y.

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE

HORIZONTAL 0 40' 80' 1" = 80'
2' CONTOURS

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

WELL PAD - LOCATION LAYOUT
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
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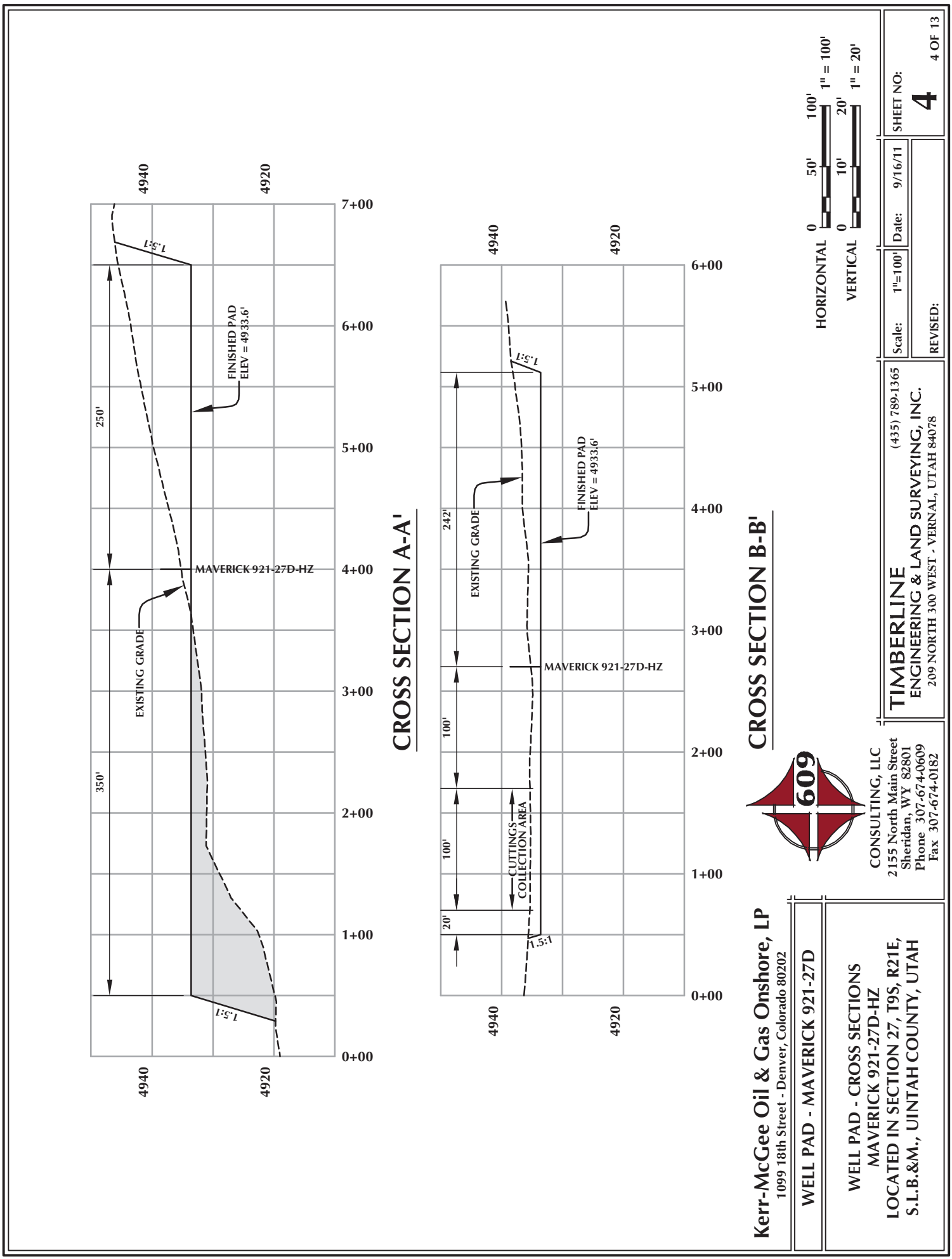
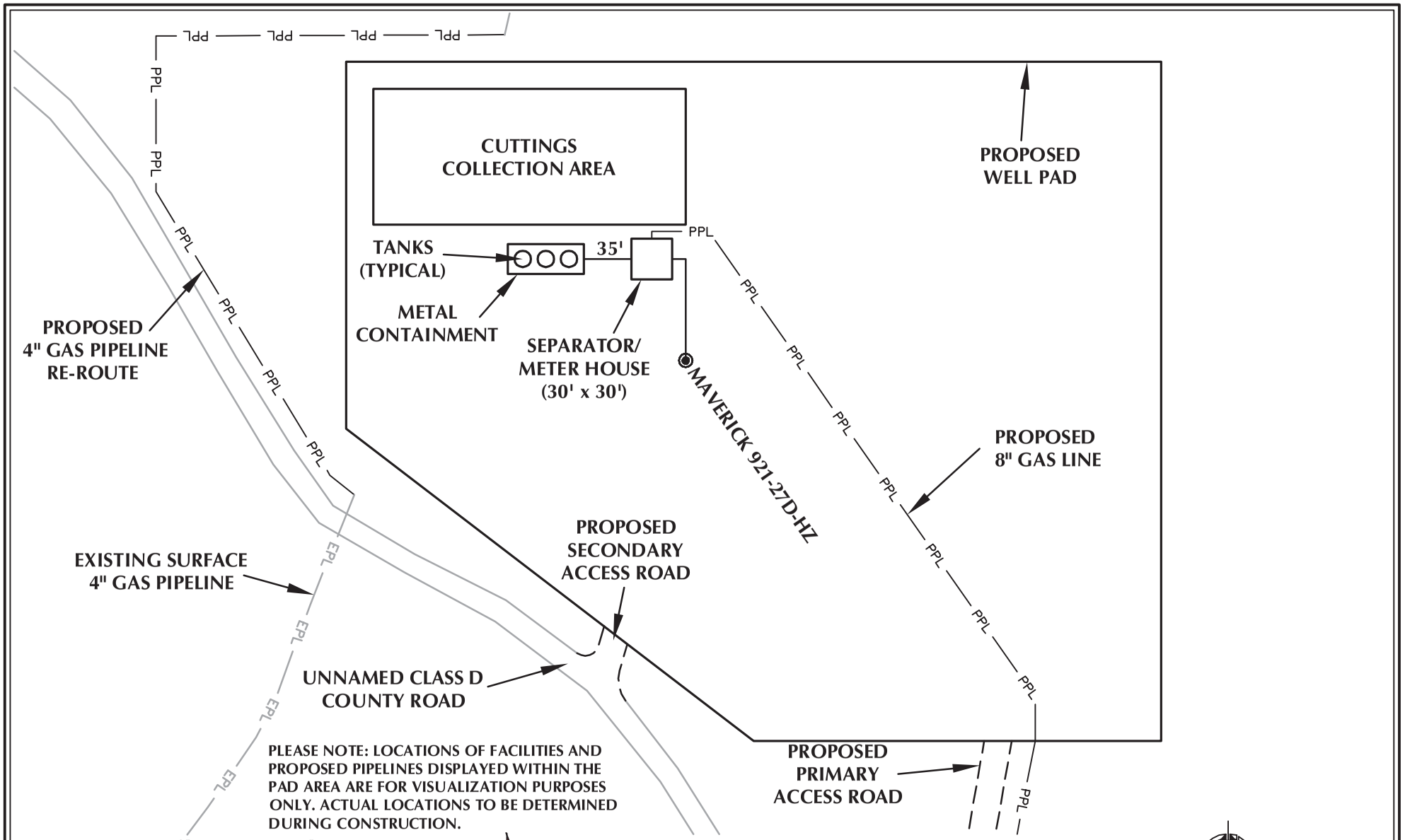
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365

SCALE: 1"=80'	DATE: 9/16/11	SHEET NO: 3
REVISED:	DJD 5/18/12	3 OF 13



K:\ANADARKO\2011\2011_62_NBU_921-26_&_27_HZ\DWGS\MAVERICK 921-27D-HZ\MAVERICK 921-27D-HZ.dwg, 9/15/2011 9:30:43 PM, jacob



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

WELL PAD - FACILITIES DIAGRAM
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
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Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=100' | Date: 9/16/11 | SHEET NO: 5 | 5 OF 13
REVISED:

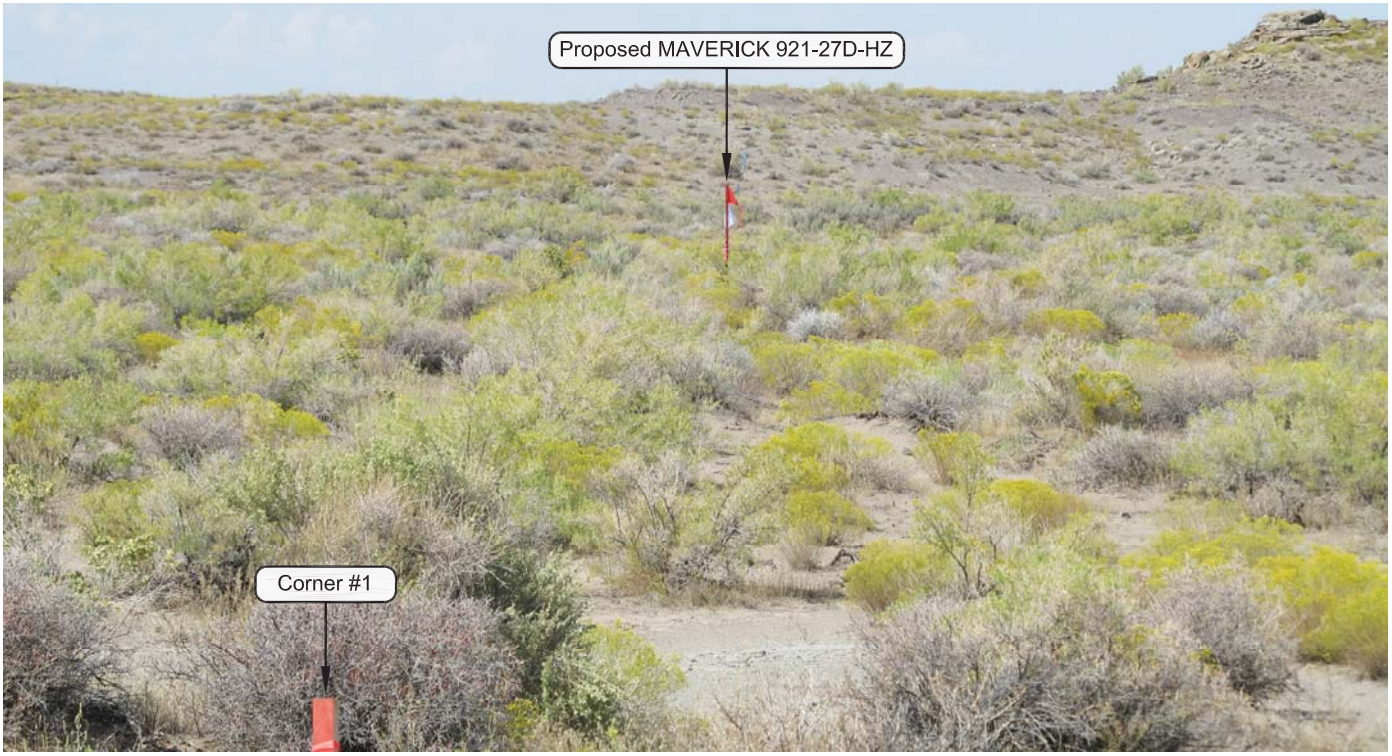

PHOTO VIEW: FROM CORNER #1 TO LOCATION STAKE

CAMERA ANGLE: WESTERLY

PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - MAVERICK 921-27D

LOCATION PHOTOS
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.

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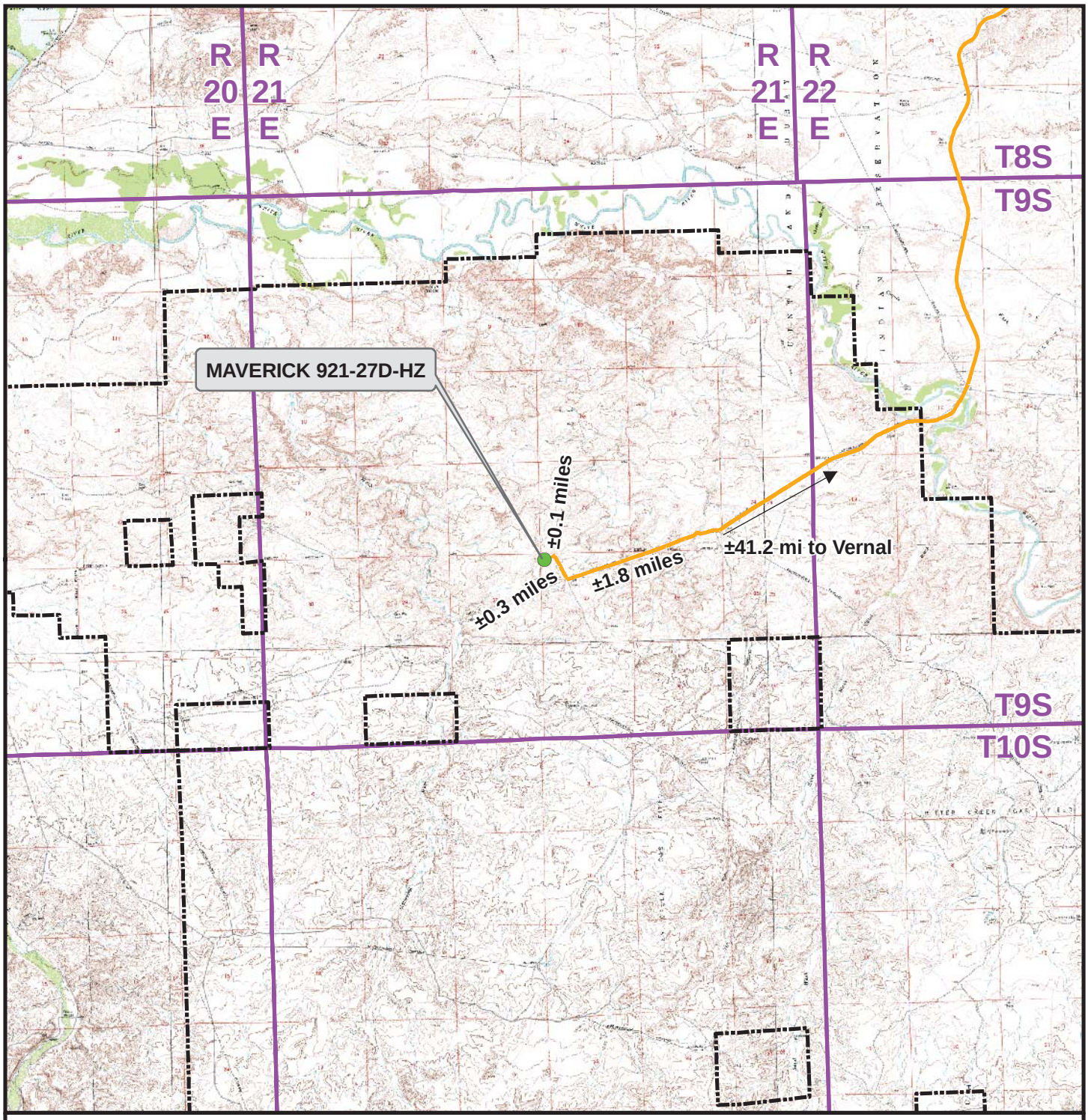
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 09-09-11	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 6
DATE DRAWN: 09-13-11	DRAWN BY: M.W.W.	6 OF 13
Date Last Revised:		

RECEIVED: May. 31, 2012



Legend

Distance From Well Pad - MAVERICK 921-27D To Unit Boundary: ±9,300ft

Proposed Well Location

Natural Buttes Unit Boundary

Access Route - Proposed

WELL PAD - MAVERICK 921-27D

TOPO A
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

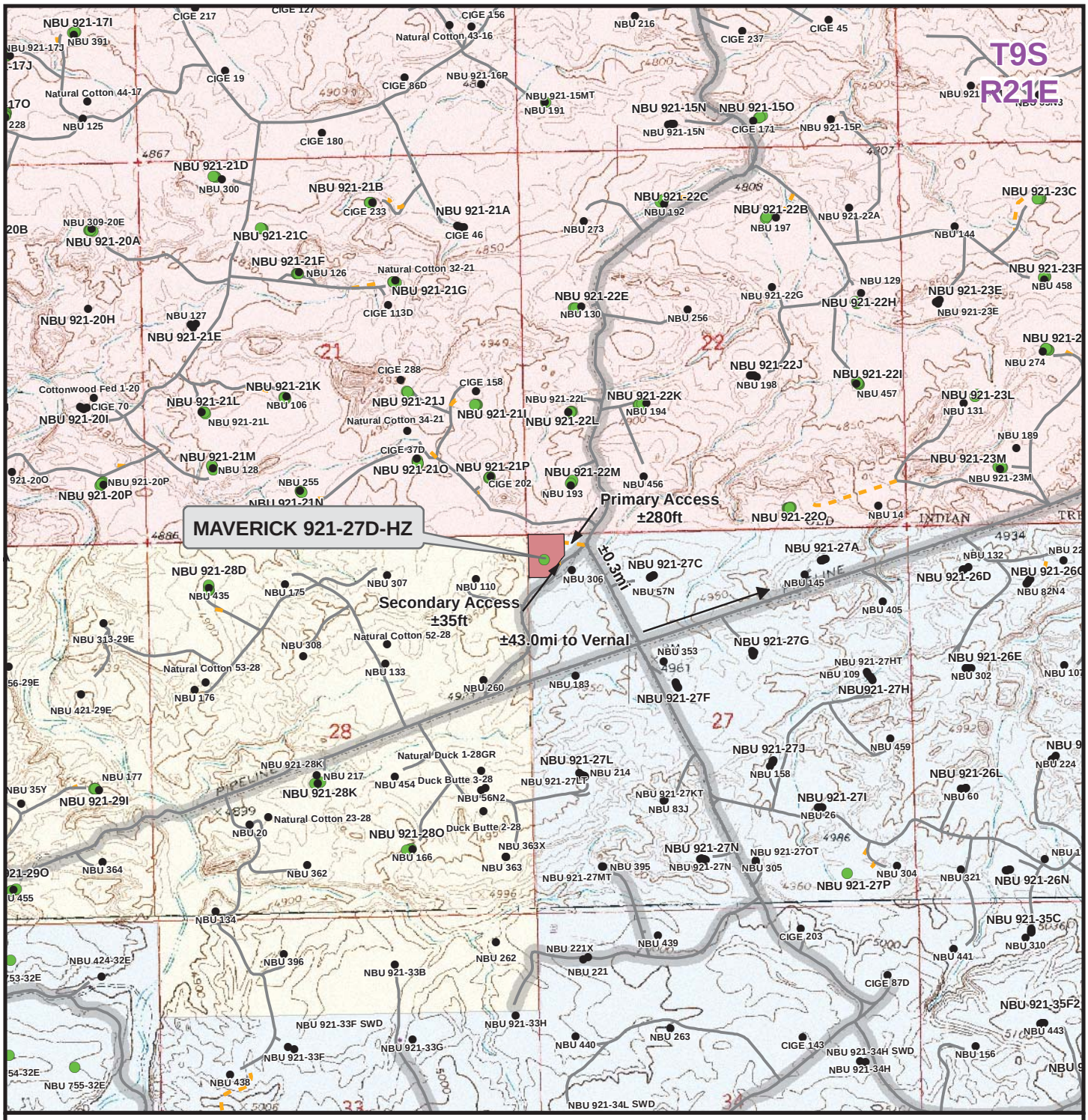
1099 18th Street
Denver, Colorado 80202

609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1:100,000	NAD83 USP Central	SHEET NO: 7
DRAWN: TL	DATE: 16 Sept 2011	7 OF 13
REVISED:	DATE:	

RECEIVED: May. 31, 2012



Legend

Total Proposed Primary Access Road Length: ±280ft
Total Proposed Secondary Access Road Length: ±35ft

Well - Proposed | Well Pad | Road - Proposed | County Road | Bureau of Land Management | State
Well - Existing | Road - Existing | Indian Reservation | Private

WELL PAD - MAVERICK 921-27D

TOPO B
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

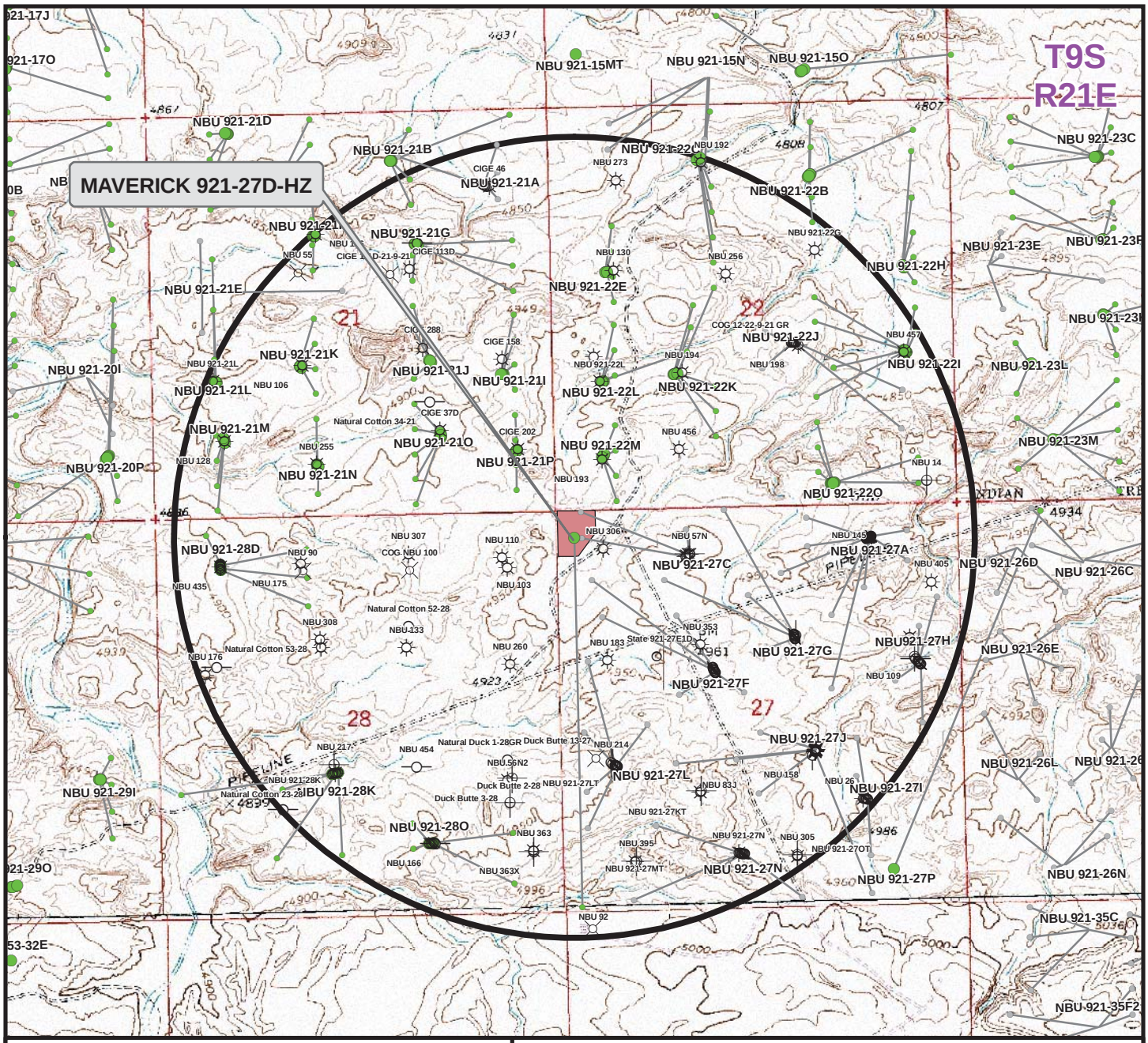
Kerr-McGee Oil & Gas Onshore L.P.
1099 18th Street
Denver, Colorado 80202

609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 8
DRAWN: TL	DATE: 16 Sept 2011	8 OF 13
REVISED: TL	DATE: 18 May 2012	

RECEIVED: May. 31, 2012



Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
MAVERICK 921-27D-HZ	NBU 921-27M4CS BH	681ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Well - 1 Mile Radius
- Producing
- Spudded
- APD Approved
- Preliminary Location
- Deferred
- Cancelled
- Temporarily Abandoned
- Active Injector
- Location Abandoned
- Plugged & Abandoned
- Shut-In

WELL PAD - MAVERICK 921-27D

TOPO C
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

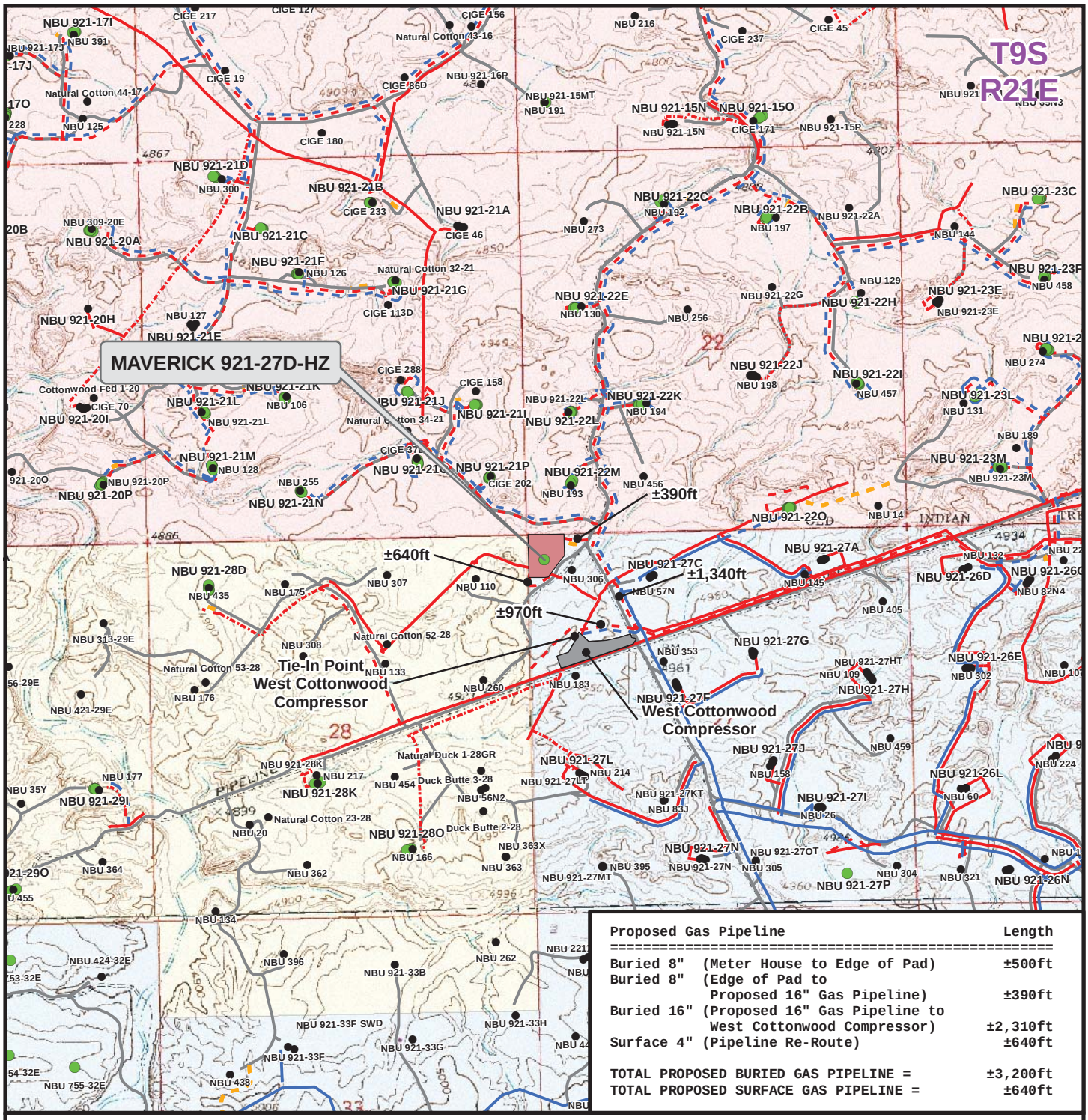
1099 18th Street
Denver, Colorado 80202

609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:	9
DRAWN: TL	DATE: 16 Sept 2011		9 OF 13
REVISED: TL	DATE: 18 May 2012		

RECEIVED: May. 31, 2012



WELL PAD - MAVERICK 921-27D

TOPO D
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

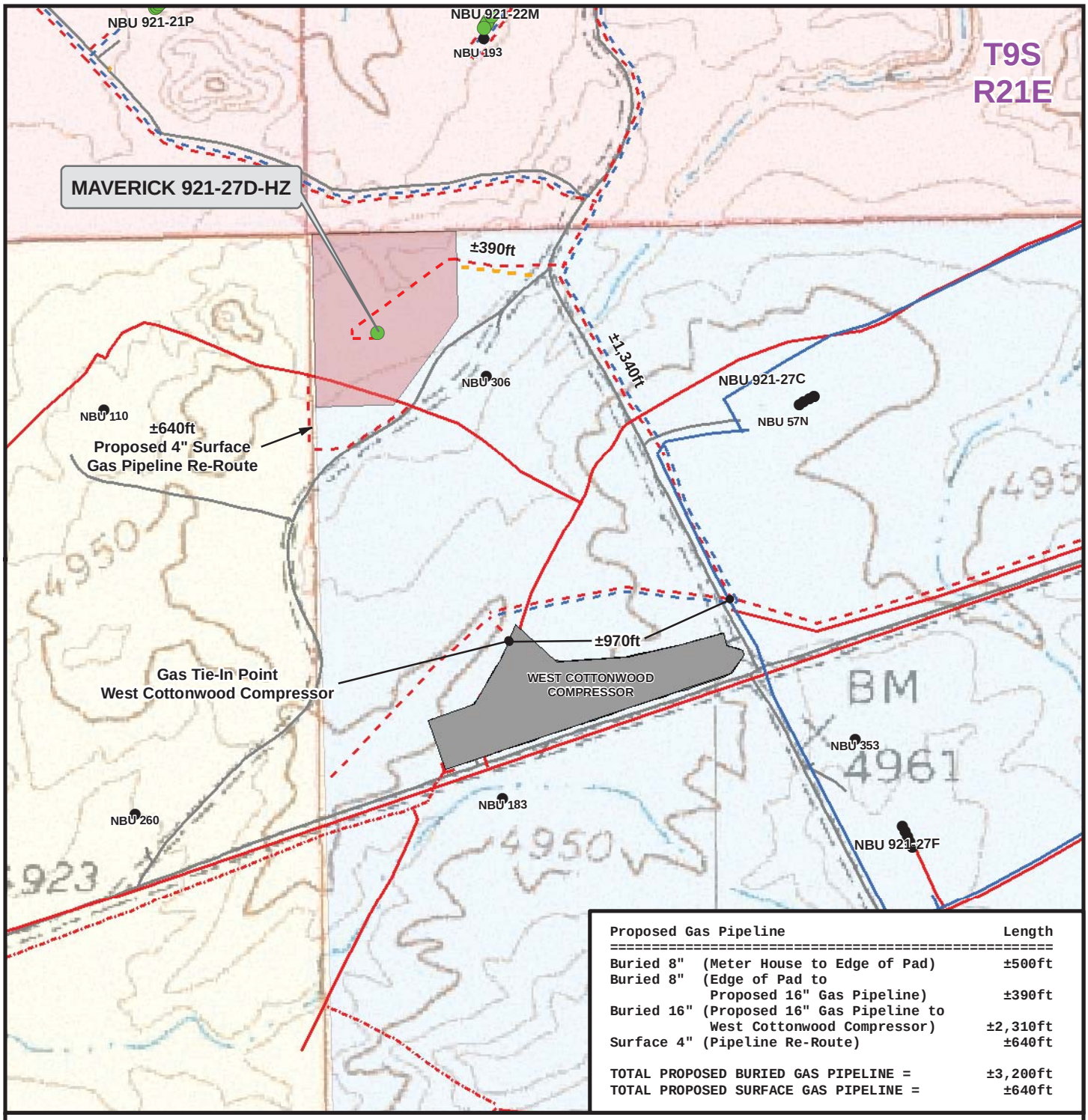
1099 18th Street
Denver, Colorado 80202

609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 10	
DRAWN: TL	DATE: 16 Sept 2011	10 OF 13	
REVISED: TL	DATE: 18 May 2012		

RECEIVED: May. 31, 2012



Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±500ft
Buried 8" (Edge of Pad to Proposed 16" Gas Pipeline)	±390ft
Buried 16" (Proposed 16" Gas Pipeline to West Cottonwood Compressor)	±2,310ft
Surface 4" (Pipeline Re-Route)	±640ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±3,200ft
TOTAL PROPOSED SURFACE GAS PIPELINE =	±640ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad - Proposed
- Well Pad - Existing
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

WELL PAD - MAVERICK 921-27D

TOPO D2 (PAD & PIPELINE DETAIL)
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

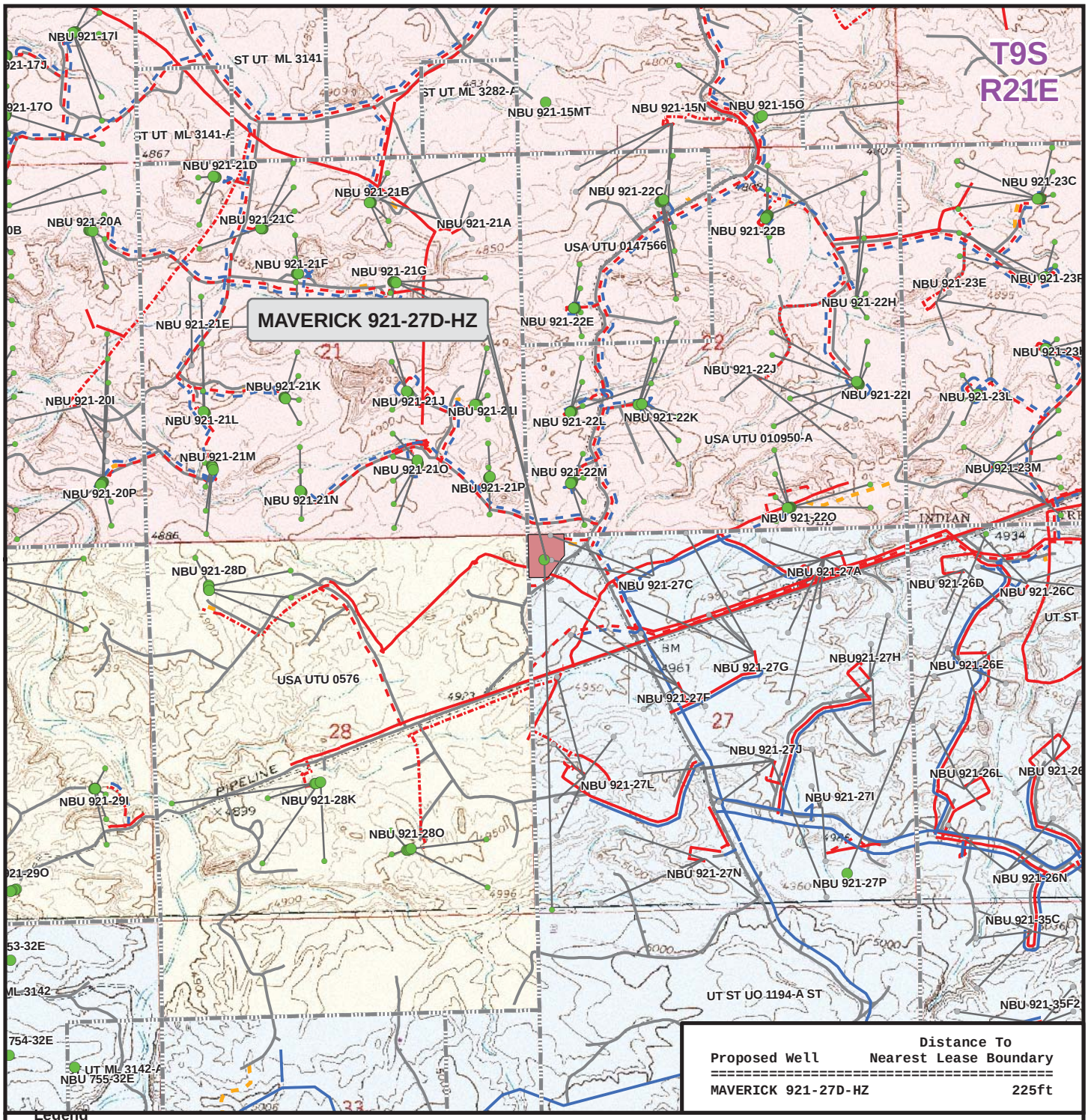
1099 18th Street
Denver, Colorado 80202

609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 500ft	NAD83 USP Central	SHEET NO:	
DRAWN: TL	DATE: 16 Sept 2011	11	
REVISED: TL	DATE: 18 May 2012	11 OF 13	

RECEIVED: May. 31, 2012



WELL PAD - MAVERICK 921-27D

TOPO E
MAVERICK 921-27D-HZ
LOCATED IN SECTION 27, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202

609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 12
DRAWN: TL	DATE: 16 Sept 2011	12 OF 13
REVISED: TL	DATE: 18 May 2012	

RECEIVED: May. 31, 2012

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – MAVERICK 921-27D
WELL – MAVERICK 921-27D-HZ
Section 27, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 1.8 miles to a second Class D County Road to the north. Exit right and proceed in a northerly direction along the second Class D County Road approximately 0.3 miles to the proposed primary access road. Follow road flags in a northwesterly direction approximately 280 feet the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 43.4 miles in a southerly direction.

RECEIVED: May. 31, 2012

Sundry Number: 26263 API Well Number: 43047520510000

Scientific Drilling

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: MAVERICK 921-27D-HZ
Well: MAVERICK 921-27D-HZ
Wellbore: OH
Design: PLAN #4 SURFACE

Azimuths to True North
Magnetic North: 11.06°

Magnetic Field
Strength: 52303.6snT
Dip Angle: 65.86°
Date: 2011/09/21
Model: IGRF2010

Anadarko Petroleum Corporation

WELL DETAILS: MAVERICK 921-27D-HZ

GL 4938 & KB 4 @ 4938.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14534216.93	2047616.53	40.013318	-109.545762

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	4735.00	-4871.29	-17.05	14529346.02	2047678.99	39.999943	-109.545823	Point
- plan hits target center								
TGT_9	4739.00	-4499.94	-18.80	14529717.29	2047671.18	40.000963	-109.545829	Point
- plan hits target center								
TGT_8	4743.00	-3999.95	-21.15	14530217.18	2047660.67	40.002335	-109.545838	Point
- plan hits target center								
TGT_7	4755.00	-3499.95	-23.50	14530717.07	2047650.16	40.003708	-109.545846	Point
- plan hits target center								
TGT_5	4774.00	-2499.97	-28.20	14531716.84	2047629.14	40.006454	-109.545863	Point
- plan hits target center								
TGT_4	4795.00	-1999.97	-30.55	14532216.73	2047618.63	40.007827	-109.545871	Point
- plan hits target center								
TGT_3	4816.00	-1499.98	-32.90	14532716.61	2047608.12	40.009200	-109.545880	Point
- plan hits target center								
CASING PT	4836.72	-586.55	-37.19	14533629.85	2047588.92	40.011708	-109.545895	Point
- plan hits target center								

CASING DETAILS

TVD	MD	Name	Size
2710.00	2711.43	9 5/8"	9.625
4836.72	5178.95	7"	7.000
4735.00	9465.23	4 1/2"	4.500

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

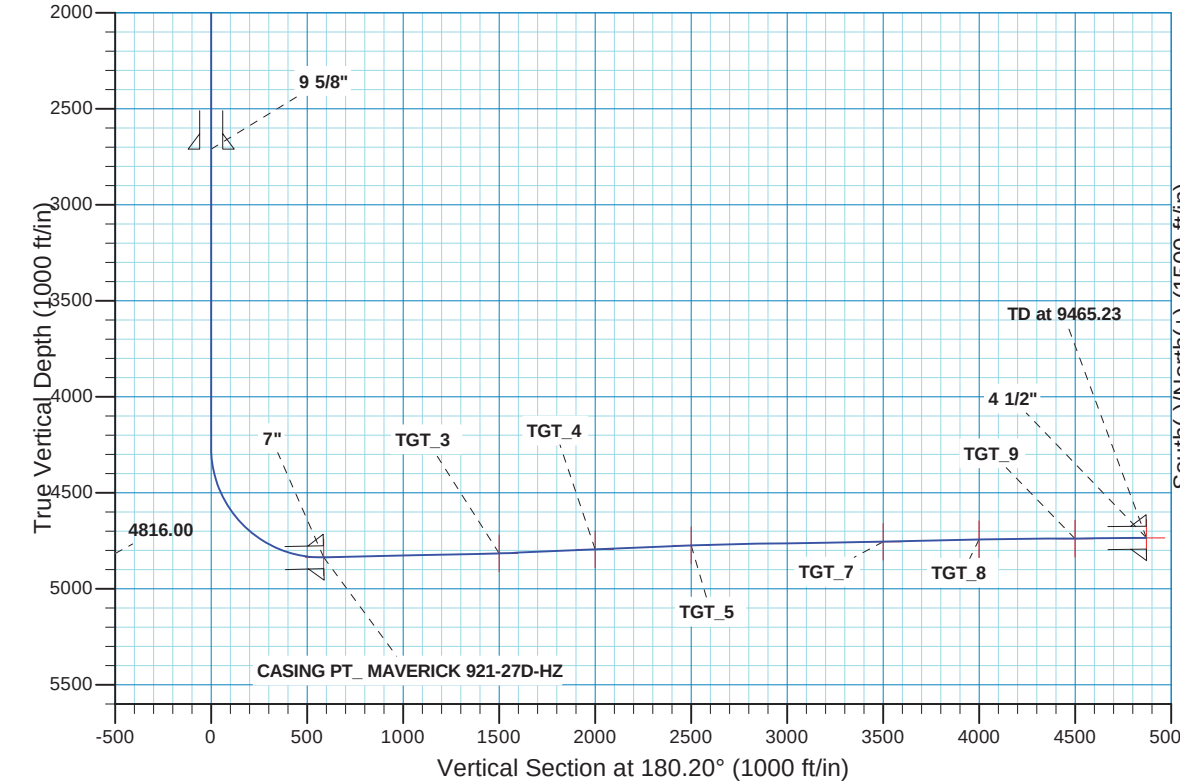
Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 27 T9S R21E
System Datum: Mean Sea Level

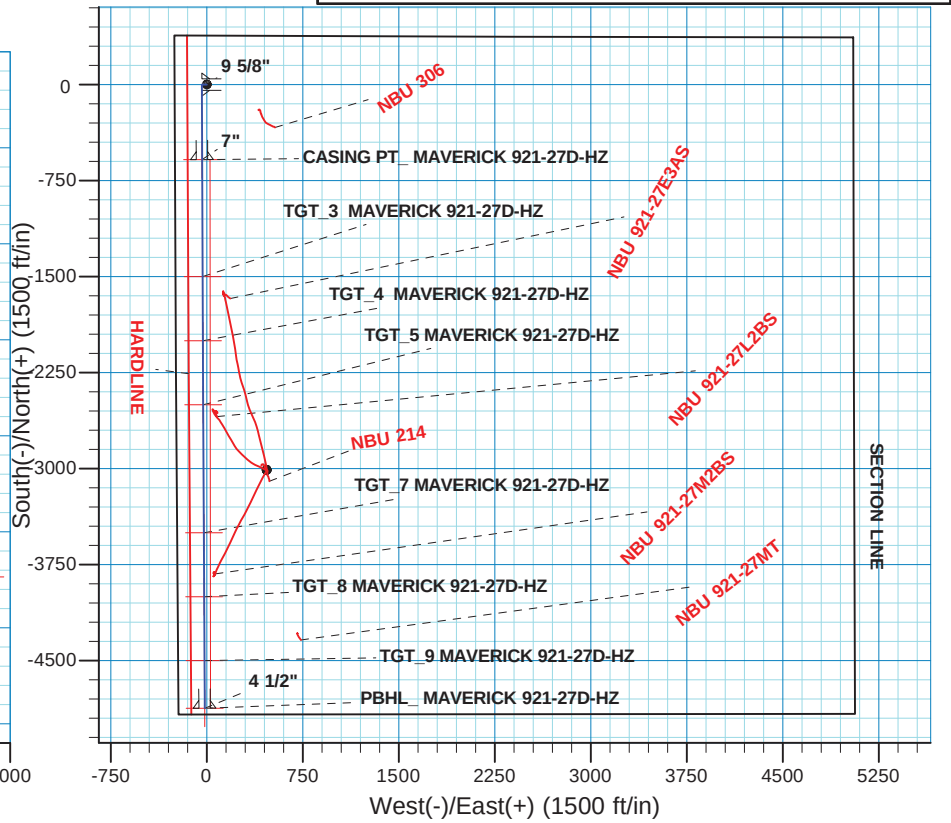
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
550.00	5.00	270.00	549.68	0.00	-10.90	2.00	270.00	0.04	
758.75	5.00	270.00	757.64	0.00	-29.10	0.00	0.00	0.10	
1008.75	0.00	270.00	1007.32	0.00	-40.00	2.00	180.00	0.14	
4265.35	0.00	270.00	4263.92	0.00	-40.00	0.00	270.00	0.14	
5178.95	91.36	179.73	4836.72	-586.55	-37.19	10.00	179.73	586.68	CASING PT_ MAVERICK 921-27D-HZ
5181.98	91.30	179.73	4836.65	-589.58	-37.18	2.00	175.21	589.71	
6092.63	91.30	179.73	4816.00	-1499.98	-32.90	0.00	0.00	1500.09	TGT_3 MAVERICK 921-27D-HZ
6151.36	92.47	179.73	4814.07	-1558.68	-32.62	2.00	-0.01	1558.78	
6593.07	92.47	179.73	4795.00	-1999.97	-30.55	0.00	0.00	2000.07	TGT_4 MAVERICK 921-27D-HZ
6596.53	92.40	179.73	4794.85	-2003.43	-30.53	2.00	179.99	2003.52	
7093.51	92.40	179.73	4774.00	-2499.97	-28.20	0.00	0.00	2500.05	TGT_5 MAVERICK 921-27D-HZ
7161.64	91.04	179.73	4771.95	-2568.07	-27.88	2.00	-180.00	2568.15	
8093.69	91.04	179.73	4755.00	-3499.95	-23.50	0.00	0.00	3500.01	TGT_7 MAVERICK 921-27D-HZ
8110.62	91.38	179.73	4754.64	-3516.87	-23.42	2.00	0.00	3516.93	
8593.84	91.38	179.73	4743.00	-3999.95	-21.15	0.00	0.00	3999.99	TGT_8 MAVERICK 921-27D-HZ
8642.29	90.41	179.73	4742.24	-4048.40	-20.92	2.00	-180.00	4048.45	
9093.85	90.41	179.73	4739.00	-4499.94	-18.80	0.00	0.00	4499.98	TGT_9 MAVERICK 921-27D-HZ
9104.29	90.62	179.73	4738.91	-4510.37	-18.75	2.00	-0.20	4510.41	
9465.23	90.62	179.73	4735.00	-4871.29	-17.05	0.00	0.00	4871.32	PBHL_ MAVERICK 921-27D-HZ

Plan: PLAN #4 SURFACE (MAVERICK 921-27D-HZ/OH)

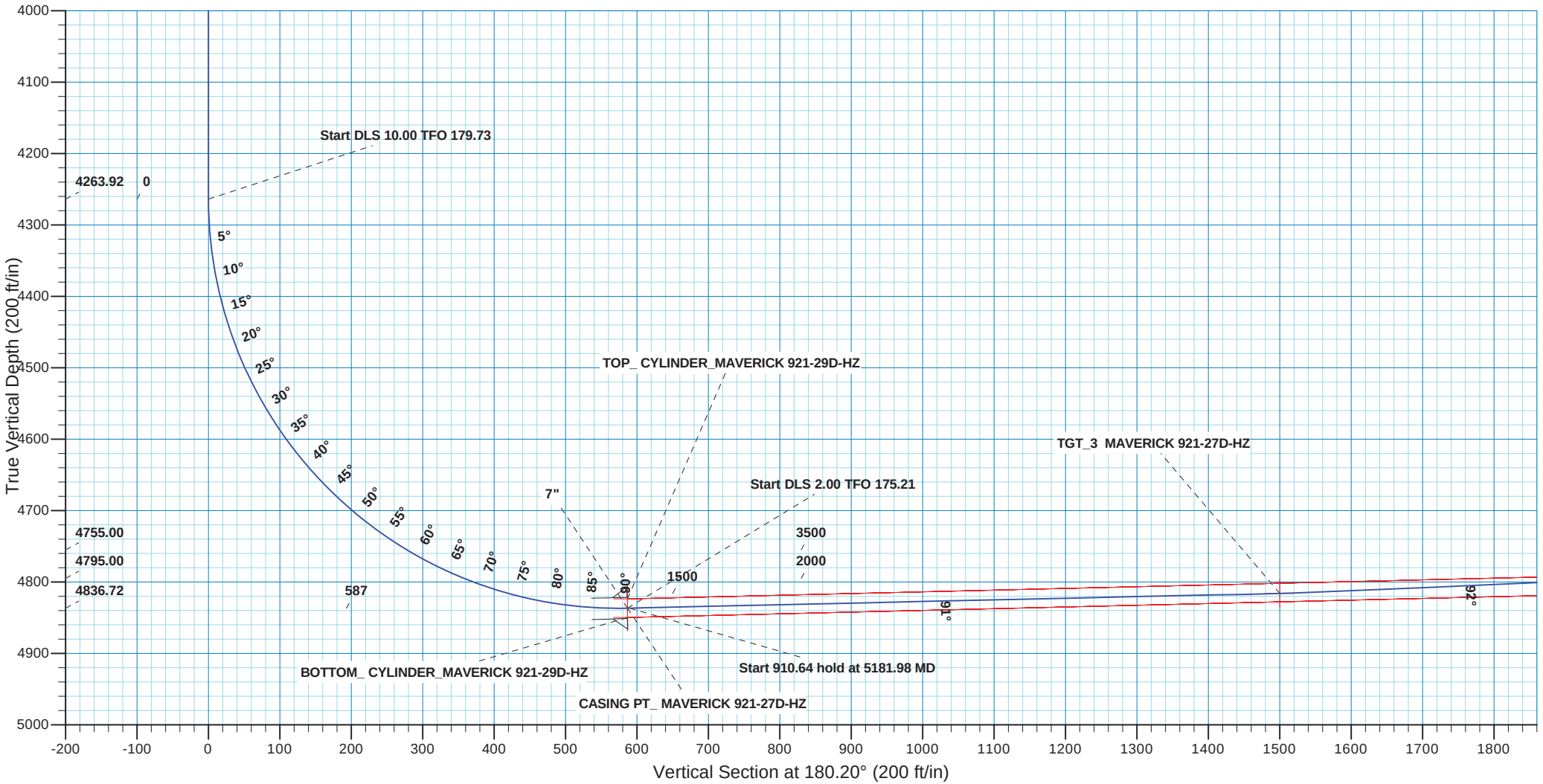
Created By: RobertScott Date: 12:49, May 16 2012





Scientific Drilling

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: MAVERICK 921-27D-HZ
Well: MAVERICK 921-27D-HZ
Wellbore: OH
Design: PLAN #4 SURFACE



Plan: PLAN #4 SURFACE (MAVERICK 921-27D-HZ/OH)

Created By: RobertScott Date: 12:57, May 16 2012

Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
MAVERICK 921-27D-HZ
MAVERICK 921-27D-HZ

OH

Plan: PLAN #4 SURFACE

Standard Planning Report

16 May, 2012

Anadarko Petroleum Corporation

RECEIVED: May. 31, 2012

Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D-HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Site:	MAVERICK 921-27D-HZ	**North Reference:**	True
Well:	MAVERICK 921-27D-HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #4 SURFACE		

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site MAVERICK 921-27D-HZ, SECTION 27 T9S R21E

Site Position:		**Northing:**	14,534,216.93 usft	**Latitude:**	40.013318
From:	Lat/Long	**Easting:**	2,047,616.53 usft	**Longitude:**	-109.545763
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.94 °

Well MAVERICK 921-27D-HZ, 384 FNL 252 FWL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,534,216.93 usft	**Latitude:**	40.013318
	+E/-W	0.00 ft	**Easting:**	2,047,616.53 usft	**Longitude:**	-109.545763
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	4,934.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/09/21	11.06	65.86	52,304

Design PLAN #4 SURFACE

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	180.20

Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D-HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Site:	MAVERICK 921-27D-HZ	**North Reference:**	True
Well:	MAVERICK 921-27D-HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #4 SURFACE		

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	5.00	270.00	549.68	0.00	-10.90	2.00	2.00	0.00	270.00	
758.75	5.00	270.00	757.64	0.00	-29.10	0.00	0.00	0.00	0.00	
1,008.75	0.00	270.00	1,007.32	0.00	-40.00	2.00	-2.00	0.00	180.00	
4,265.35	0.00	270.00	4,263.92	0.00	-40.00	0.00	0.00	0.00	270.00	
5,178.95	91.36	179.73	4,836.72	-586.55	-37.19	10.00	10.00	-9.88	179.73	CASING PT_ MAVER
5,181.98	91.30	179.73	4,836.65	-589.58	-37.18	2.00	-1.99	0.17	175.21	
6,092.63	91.30	179.73	4,816.00	-1,499.98	-32.90	0.00	0.00	0.00	0.00	TGT_3 MAVERICK 9
6,151.36	92.47	179.73	4,814.07	-1,558.68	-32.62	2.00	2.00	0.00	-0.01	
6,593.07	92.47	179.73	4,795.00	-1,999.97	-30.55	0.00	0.00	0.00	0.00	TGT_4 MAVERICK 9
6,596.53	92.40	179.73	4,794.85	-2,003.43	-30.53	2.00	-2.00	0.00	179.99	
7,093.51	92.40	179.73	4,774.00	-2,499.97	-28.20	0.00	0.00	0.00	0.00	TGT_5 MAVERICK 9
7,161.64	91.04	179.73	4,771.95	-2,568.07	-27.88	2.00	-2.00	0.00	-180.00	
8,093.69	91.04	179.73	4,755.00	-3,499.95	-23.50	0.00	0.00	0.00	0.00	TGT_7 MAVERICK 9
8,110.62	91.38	179.73	4,754.64	-3,516.87	-23.42	2.00	2.00	0.00	0.00	
8,593.84	91.38	179.73	4,743.00	-3,999.95	-21.15	0.00	0.00	0.00	0.00	TGT_8 MAVERICK 9
8,642.29	90.41	179.73	4,742.24	-4,048.40	-20.92	2.00	-2.00	0.00	-180.00	
9,093.85	90.41	179.73	4,739.00	-4,499.94	-18.80	0.00	0.00	0.00	0.00	TGT_9 MAVERICK 9
9,104.29	90.62	179.73	4,738.91	-4,510.37	-18.75	2.00	2.00	-0.01	-0.20	
9,465.23	90.62	179.73	4,735.00	-4,871.29	-17.05	0.00	0.00	0.00	0.00	PBHL_ MAVERICK 9

RECEIVED: May. 31, 2012

Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D-HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Site:	MAVERICK 921-27D-HZ	**North Reference:**	True
Well:	MAVERICK 921-27D-HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #4 SURFACE		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	270.00	399.98	0.00	-1.75	0.01	2.00	2.00	0.00
500.00	4.00	270.00	499.84	0.00	-6.98	0.02	2.00	2.00	0.00
550.00	5.00	270.00	549.68	0.00	-10.90	0.04	2.00	2.00	0.00
Start 208.75 hold at 550.00 MD									
600.00	5.00	270.00	599.49	0.00	-15.26	0.05	0.00	0.00	0.00
700.00	5.00	270.00	699.11	0.00	-23.97	0.08	0.00	0.00	0.00
758.75	5.00	270.00	757.64	0.00	-29.10	0.10	0.00	0.00	0.00
Start Drop -2.00									
800.00	4.18	270.00	798.76	0.00	-32.39	0.11	2.00	-2.00	0.00
900.00	2.18	270.00	898.60	0.00	-37.93	0.13	2.00	-2.00	0.00
1,000.00	0.18	270.00	998.57	0.00	-39.98	0.14	2.00	-2.00	0.00
1,008.75	0.00	270.00	1,007.32	0.00	-40.00	0.14	2.00	-2.00	0.00
Start 3256.60 hold at 1008.75 MD									
1,100.00	0.00	270.00	1,098.57	0.00	-40.00	0.14	0.00	0.00	0.00
1,200.00	0.00	270.00	1,198.57	0.00	-40.00	0.14	0.00	0.00	0.00
1,300.00	0.00	270.00	1,298.57	0.00	-40.00	0.14	0.00	0.00	0.00
1,400.00	0.00	270.00	1,398.57	0.00	-40.00	0.14	0.00	0.00	0.00
1,500.00	0.00	270.00	1,498.57	0.00	-40.00	0.14	0.00	0.00	0.00
1,600.00	0.00	270.00	1,598.57	0.00	-40.00	0.14	0.00	0.00	0.00
1,700.00	0.00	270.00	1,698.57	0.00	-40.00	0.14	0.00	0.00	0.00
1,800.00	0.00	270.00	1,798.57	0.00	-40.00	0.14	0.00	0.00	0.00
1,900.00	0.00	270.00	1,898.57	0.00	-40.00	0.14	0.00	0.00	0.00
2,000.00	0.00	270.00	1,998.57	0.00	-40.00	0.14	0.00	0.00	0.00
2,100.00	0.00	270.00	2,098.57	0.00	-40.00	0.14	0.00	0.00	0.00
2,200.00	0.00	270.00	2,198.57	0.00	-40.00	0.14	0.00	0.00	0.00
2,300.00	0.00	270.00	2,298.57	0.00	-40.00	0.14	0.00	0.00	0.00
2,400.00	0.00	270.00	2,398.57	0.00	-40.00	0.14	0.00	0.00	0.00
2,500.00	0.00	270.00	2,498.57	0.00	-40.00	0.14	0.00	0.00	0.00
2,600.00	0.00	270.00	2,598.57	0.00	-40.00	0.14	0.00	0.00	0.00
2,700.00	0.00	270.00	2,698.57	0.00	-40.00	0.14	0.00	0.00	0.00
2,711.43	0.00	270.00	2,710.00	0.00	-40.00	0.14	0.00	0.00	0.00
9 5/8"									
2,800.00	0.00	270.00	2,798.57	0.00	-40.00	0.14	0.00	0.00	0.00
2,900.00	0.00	270.00	2,898.57	0.00	-40.00	0.14	0.00	0.00	0.00
3,000.00	0.00	270.00	2,998.57	0.00	-40.00	0.14	0.00	0.00	0.00
3,100.00	0.00	270.00	3,098.57	0.00	-40.00	0.14	0.00	0.00	0.00
3,200.00	0.00	270.00	3,198.57	0.00	-40.00	0.14	0.00	0.00	0.00
3,300.00	0.00	270.00	3,298.57	0.00	-40.00	0.14	0.00	0.00	0.00
3,400.00	0.00	270.00	3,398.57	0.00	-40.00	0.14	0.00	0.00	0.00
3,500.00	0.00	270.00	3,498.57	0.00	-40.00	0.14	0.00	0.00	0.00
3,600.00	0.00	270.00	3,598.57	0.00	-40.00	0.14	0.00	0.00	0.00
3,700.00	0.00	270.00	3,698.57	0.00	-40.00	0.14	0.00	0.00	0.00
3,800.00	0.00	270.00	3,798.57	0.00	-40.00	0.14	0.00	0.00	0.00
3,900.00	0.00	270.00	3,898.57	0.00	-40.00	0.14	0.00	0.00	0.00
4,000.00	0.00	270.00	3,998.57	0.00	-40.00	0.14	0.00	0.00	0.00
4,100.00	0.00	270.00	4,098.57	0.00	-40.00	0.14	0.00	0.00	0.00
4,200.00	0.00	270.00	4,198.57	0.00	-40.00	0.14	0.00	0.00	0.00
4,265.35	0.00	270.00	4,263.92	0.00	-40.00	0.14	0.00	0.00	0.00

RECEIVED: May. 31, 2012

Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D-HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Site:	MAVERICK 921-27D-HZ	**North Reference:**	True
Well:	MAVERICK 921-27D-HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #4 SURFACE		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Start DLS 10.00 TFO 179.73									
4,300.00	3.46	179.73	4,298.55	-1.05	-39.99	1.19	10.00	10.00	-260.53
4,400.00	13.46	179.73	4,397.34	-15.75	-39.92	15.89	10.00	10.00	0.00
4,500.00	23.46	179.73	4,492.07	-47.38	-39.77	47.52	10.00	10.00	0.00
4,600.00	33.46	179.73	4,579.87	-94.98	-39.54	95.12	10.00	10.00	0.00
4,700.00	43.46	179.73	4,658.07	-157.11	-39.24	157.24	10.00	10.00	0.00
4,800.00	53.46	179.73	4,724.29	-231.86	-38.89	232.00	10.00	10.00	0.00
4,900.00	63.46	179.73	4,776.53	-316.99	-38.48	317.12	10.00	10.00	0.00
5,000.00	73.46	179.73	4,813.19	-409.89	-38.04	410.02	10.00	10.00	0.00
5,100.00	83.46	179.73	4,833.16	-507.74	-37.57	507.87	10.00	10.00	0.00
5,178.36	91.30	179.73	4,836.73	-585.96	-37.19	586.09	10.00	10.00	0.00
TOP_ CYLINDER_MAVERICK 921-29D-HZ									
5,178.65	91.33	179.73	4,836.73	-586.25	-37.19	586.37	10.00	10.00	0.00
BOTTOM_ CYLINDER_MAVERICK 921-29D-HZ									
5,178.95	91.36	179.73	4,836.72	-586.55	-37.19	586.68	10.00	10.00	0.00
Start DLS 2.00 TFO 175.21 - 7" - CASING PT_ MAVERICK 921-27D-HZ									
5,181.98	91.30	179.73	4,836.65	-589.58	-37.18	589.71	2.00	-1.99	0.17
Start 910.64 hold at 5181.98 MD									
5,200.00	91.30	179.73	4,836.24	-607.59	-37.09	607.72	0.00	0.00	0.00
5,300.00	91.30	179.73	4,833.97	-707.57	-36.62	707.69	0.00	0.00	0.00
5,400.00	91.30	179.73	4,831.71	-807.54	-36.15	807.66	0.00	0.00	0.00
5,500.00	91.30	179.73	4,829.44	-907.51	-35.68	907.63	0.00	0.00	0.00
5,600.00	91.30	179.73	4,827.17	-1,007.49	-35.21	1,007.60	0.00	0.00	0.00
5,700.00	91.30	179.73	4,824.90	-1,107.46	-34.74	1,107.57	0.00	0.00	0.00
5,800.00	91.30	179.73	4,822.64	-1,207.43	-34.27	1,207.54	0.00	0.00	0.00
5,900.00	91.30	179.73	4,820.37	-1,307.41	-33.80	1,307.52	0.00	0.00	0.00
6,000.00	91.30	179.73	4,818.10	-1,407.38	-33.33	1,407.49	0.00	0.00	0.00
6,092.63	91.30	179.73	4,816.00	-1,499.98	-32.90	1,500.09	0.00	0.00	0.00
Start DLS 2.00 TFO -0.01 - TGT_3 MAVERICK 921-27D-HZ									
6,100.00	91.45	179.73	4,815.82	-1,507.35	-32.87	1,507.46	2.00	2.00	0.00
6,151.36	92.47	179.73	4,814.07	-1,558.68	-32.62	1,558.78	2.00	2.00	0.00
Start 441.71 hold at 6151.36 MD									
6,200.00	92.47	179.73	4,811.97	-1,607.27	-32.40	1,607.38	0.00	0.00	0.00
6,300.00	92.47	179.73	4,807.65	-1,707.18	-31.93	1,707.28	0.00	0.00	0.00
6,400.00	92.47	179.73	4,803.33	-1,807.09	-31.46	1,807.18	0.00	0.00	0.00
6,500.00	92.47	179.73	4,799.02	-1,906.99	-30.99	1,907.09	0.00	0.00	0.00
6,593.07	92.47	179.73	4,795.00	-1,999.97	-30.55	2,000.07	0.00	0.00	0.00
Start DLS 2.00 TFO 179.99 - TGT_4 MAVERICK 921-27D-HZ									
6,596.53	92.40	179.73	4,794.85	-2,003.43	-30.53	2,003.52	2.00	-2.00	0.00
Start 496.98 hold at 6596.53 MD									
6,600.00	92.40	179.73	4,794.71	-2,006.90	-30.52	2,006.99	0.00	0.00	0.00
6,700.00	92.40	179.73	4,790.51	-2,106.81	-30.05	2,106.90	0.00	0.00	0.00
6,800.00	92.40	179.73	4,786.32	-2,206.72	-29.58	2,206.81	0.00	0.00	0.00
6,900.00	92.40	179.73	4,782.12	-2,306.63	-29.11	2,306.72	0.00	0.00	0.00
7,000.00	92.40	179.73	4,777.92	-2,406.54	-28.64	2,406.63	0.00	0.00	0.00
7,093.51	92.40	179.73	4,774.00	-2,499.97	-28.20	2,500.05	0.00	0.00	0.00
Start DLS 2.00 TFO -180.00 - TGT_5 MAVERICK 921-27D-HZ									
7,100.00	92.27	179.73	4,773.74	-2,506.45	-28.17	2,506.53	2.00	-2.00	0.00
7,161.64	91.04	179.73	4,771.95	-2,568.07	-27.88	2,568.15	2.00	-2.00	0.00
Start 932.05 hold at 7161.64 MD									
7,200.00	91.04	179.73	4,771.25	-2,606.42	-27.70	2,606.50	0.00	0.00	0.00
7,300.00	91.04	179.73	4,769.43	-2,706.40	-27.23	2,706.48	0.00	0.00	0.00
7,400.00	91.04	179.73	4,767.62	-2,806.38	-26.76	2,806.46	0.00	0.00	0.00

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Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D-HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Site:	MAVERICK 921-27D-HZ	**North Reference:**	True
Well:	MAVERICK 921-27D-HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #4 SURFACE		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,500.00	91.04	179.73	4,765.80	-2,906.36	-26.29	2,906.44	0.00	0.00	0.00
7,600.00	91.04	179.73	4,763.98	-3,006.35	-25.82	3,006.42	0.00	0.00	0.00
7,700.00	91.04	179.73	4,762.16	-3,106.33	-25.35	3,106.40	0.00	0.00	0.00
7,800.00	91.04	179.73	4,760.34	-3,206.31	-24.88	3,206.38	0.00	0.00	0.00
7,900.00	91.04	179.73	4,758.52	-3,306.29	-24.41	3,306.36	0.00	0.00	0.00
8,000.00	91.04	179.73	4,756.70	-3,406.28	-23.94	3,406.34	0.00	0.00	0.00
8,093.69	91.04	179.73	4,755.00	-3,499.95	-23.50	3,500.01	0.00	0.00	0.00
Start DLS 2.00 TFO 0.00 - TGT_7 MAVERICK 921-27D-HZ									
8,100.00	91.17	179.73	4,754.88	-3,506.26	-23.47	3,506.32	2.00	2.00	0.00
8,110.62	91.38	179.73	4,754.64	-3,516.87	-23.42	3,516.93	2.00	2.00	0.00
Start 483.22 hold at 8110.62 MD									
8,200.00	91.38	179.73	4,752.49	-3,606.23	-23.00	3,606.29	0.00	0.00	0.00
8,300.00	91.38	179.73	4,750.08	-3,706.20	-22.53	3,706.25	0.00	0.00	0.00
8,400.00	91.38	179.73	4,747.67	-3,806.17	-22.06	3,806.22	0.00	0.00	0.00
8,500.00	91.38	179.73	4,745.26	-3,906.14	-21.59	3,906.19	0.00	0.00	0.00
8,593.84	91.38	179.73	4,743.00	-3,999.95	-21.15	3,999.99	0.00	0.00	0.00
Start DLS 2.00 TFO -180.00 - TGT_8 MAVERICK 921-27D-HZ									
8,600.00	91.26	179.73	4,742.86	-4,006.11	-21.12	4,006.16	2.00	-2.00	0.00
8,642.29	90.41	179.73	4,742.24	-4,048.40	-20.92	4,048.45	2.00	-2.00	0.00
Start 451.56 hold at 8642.29 MD									
8,700.00	90.41	179.73	4,741.83	-4,106.10	-20.65	4,106.15	0.00	0.00	0.00
8,800.00	90.41	179.73	4,741.11	-4,206.10	-20.18	4,206.14	0.00	0.00	0.00
8,900.00	90.41	179.73	4,740.39	-4,306.09	-19.71	4,306.14	0.00	0.00	0.00
9,000.00	90.41	179.73	4,739.67	-4,406.09	-19.24	4,406.13	0.00	0.00	0.00
9,034.78	90.41	179.73	4,739.42	-4,440.87	-19.08	4,440.91	0.00	0.00	0.00
PBHL_MAVERICK 921-27D-HZ(460' FSL, 460' FWL)									
9,093.85	90.41	179.73	4,739.00	-4,499.94	-18.80	4,499.98	0.00	0.00	0.00
Start DLS 2.00 TFO -0.20 - TGT_9 MAVERICK 921-27D-HZ									
9,100.00	90.53	179.73	4,738.95	-4,506.09	-18.77	4,506.12	2.00	2.00	-0.01
9,104.29	90.62	179.73	4,738.91	-4,510.37	-18.75	4,510.41	2.00	2.00	-0.01
Start 360.94 hold at 9104.29 MD									
9,200.00	90.62	179.73	4,737.87	-4,606.08	-18.30	4,606.11	0.00	0.00	0.00
9,300.00	90.62	179.73	4,736.79	-4,706.07	-17.83	4,706.11	0.00	0.00	0.00
9,400.00	90.62	179.73	4,735.71	-4,806.07	-17.36	4,806.10	0.00	0.00	0.00
9,465.23	90.62	179.73	4,735.00	-4,871.29	-17.05	4,871.32	0.00	0.00	0.00
TD at 9465.23 - PBHL_ MAVERICK 921-27D-HZ									

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Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D-HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Site:	MAVERICK 921-27D-HZ	**North Reference:**	True
Well:	MAVERICK 921-27D-HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #4 SURFACE		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_ MAVERICK 921- - plan hits target center - Point	1.56	0.00	4,735.00	-4,871.29	-17.05	14,529,346.02	2,047,678.99	39.999943	-109.545823
TGT_9 MAVERICK 921- - plan hits target center - Point	0.00	0.00	4,739.00	-4,499.94	-18.80	14,529,717.30	2,047,671.17	40.000963	-109.545830
TGT_8 MAVERICK 921- - plan hits target center - Point	0.00	0.00	4,743.00	-3,999.95	-21.15	14,530,217.18	2,047,660.66	40.002335	-109.545838
TGT_7 MAVERICK 921- - plan hits target center - Point	0.00	0.00	4,755.00	-3,499.95	-23.50	14,530,717.07	2,047,650.15	40.003708	-109.545847
TGT_5 MAVERICK 921- - plan hits target center - Point	0.00	0.00	4,774.00	-2,499.97	-28.20	14,531,716.84	2,047,629.13	40.006454	-109.545863
TGT_4 MAVERICK 921 - plan hits target center - Point	0.00	0.00	4,795.00	-1,999.97	-30.55	14,532,216.73	2,047,618.62	40.007827	-109.545872
TGT_3 MAVERICK 921 - plan hits target center - Point	0.00	0.00	4,816.00	-1,499.98	-32.90	14,532,716.62	2,047,608.11	40.009200	-109.545880
CASING PT_ MAVERIC - plan hits target center - Point	0.00	0.00	4,836.72	-586.55	-37.19	14,533,629.86	2,047,588.91	40.011708	-109.545895

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,711.43	2,710.00	9 5/8"	9.625	12.250
5,178.95	4,836.72	7"	7.000	7.500
9,465.23	4,735.00	4 1/2"	4.500	6.125

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Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well MAVERICK 921-27D-HZ
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4938 & KB 4 @ 4938.00ft (ASSUMED)
Site:	MAVERICK 921-27D-HZ	**North Reference:**	True
Well:	MAVERICK 921-27D-HZ	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #4 SURFACE		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
550.00	549.68	0.00	-10.90	Start 208.75 hold at 550.00 MD
758.75	757.64	0.00	-29.10	Start Drop -2.00
1,008.75	1,007.32	0.00	-40.00	Start 3256.60 hold at 1008.75 MD
4,265.35	4,263.92	0.00	-40.00	Start DLS 10.00 TFO 179.73
5,178.95	4,836.72	-586.55	-37.19	Start DLS 2.00 TFO 175.21
5,181.98	4,836.65	-589.58	-37.18	Start 910.64 hold at 5181.98 MD
6,092.63	4,816.00	-1,499.98	-32.90	Start DLS 2.00 TFO -0.01
6,151.36	4,814.07	-1,558.68	-32.62	Start 441.71 hold at 6151.36 MD
6,593.07	4,795.00	-1,999.97	-30.55	Start DLS 2.00 TFO 179.99
6,596.53	4,794.85	-2,003.43	-30.53	Start 496.98 hold at 6596.53 MD
7,093.51	4,774.00	-2,499.97	-28.20	Start DLS 2.00 TFO -180.00
7,161.64	4,771.95	-2,568.07	-27.88	Start 932.05 hold at 7161.64 MD
8,093.69	4,755.00	-3,499.95	-23.50	Start DLS 2.00 TFO 0.00
8,110.62	4,754.64	-3,516.87	-23.42	Start 483.22 hold at 8110.62 MD
8,593.84	4,743.00	-3,999.95	-21.15	Start DLS 2.00 TFO -180.00
8,642.29	4,742.24	-4,048.40	-20.92	Start 451.56 hold at 8642.29 MD
9,093.85	4,739.00	-4,499.94	-18.80	Start DLS 2.00 TFO -0.20
9,104.29	4,738.91	-4,510.37	-18.75	Start 360.94 hold at 9104.29 MD
9,465.23	4,735.00	-4,871.29	-17.05	TD at 9465.23

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Kerr-McGee Oil & Gas Onshore. L.P.

MAVERICK 921-27D-HZ

Surface: 384 FNL / 252 FWL NWNW
BHL: 50 FSL / 225 FWL SWSW

Section 27 T9S R21E

Unitah County, Utah
Mineral Lease: UT ST UO 1194A ST

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1573	Water
Birds Nest	1783	Water
Mahogany	2273	Water
Uteland Butte	4800	Oil/Gas
TVD	4735	
TMD	9465	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

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7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 9465' MD, approximately equals 2,081 psi (4730' TVD)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 1,296 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-
(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may

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be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

KerrMcGee

Kerr McGee Oil and Gas Onshore LP

DRILLING PROGRAM

COMPANY NAME	Kerr McGee Oil and Gas Onshore LP				DATE	May 31, 2012	
WELL NAME	**Maverick 921-27D-HZ**				TVD	4,735'	9,465' MD KB 15'
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	ELEVATION	4,936' GL KB 4,951'
SURFACE LOCATION	NWNW Sec 27, T9S, R21E 384' FNL 252' FWL						
BTM HOLE LOCATION	SWSW Sec 27, T9S, R21E 50' FSL 225' FWL						
	Surface	Latitude:	40.013318	Longitude:	-109.545762	NAD 27	
	BHL	Latitude:	39.999943	Longitude:	-109.545751	NAD 27	
OBJECTIVE ZONE(S)	Uteland Buttes--Green River						
ADDITIONAL INFO	Regulatory Agencies: UDOGM (MINERALS AND SURFACE) and Tri-County Health Dept.						

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 36#, J55, LTC	Air mist
Catch water sample, if possible, from 0 to 2,723'					
	Green River @	1,573'			
	Birds Nest Water @	1,783'			
	Mahogany @	2,273'			
	Preset f/ GL @	2,723' MD			
			8-3/4"	7", 26#, HCP110, LTC	Water / Wtr Base Mud 8.3 - 10.5 ppg
	KOP	4,265' TVD 4,265' MD			
	Uteland Buttes				
	Green River @	4,813' TVD 5,090' MD			
LWD GR					
			6-1/8"		
			4-1/2", 11.6, HCP-110, DQX & LTC		
	Uteland (Heel) @	4,848' TVD 5,335' MD	MW = 9.0 - 9.5		
	TD (Toe) @	4,735' TVD 9,465' MD	LWD: GR		
			PCL: 3-Combo/Image		

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KerrMcGee

Kerr McGee Oil and Gas Onshore LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3520	2020	453000
SURFACE	9-5/8"	0	to	2,723'	36.00	J55	LTC	2.71**	1.59	5.36
								9960	6230	830402
INTERMEDIATE	7"	0	to	5,335'	26.00	HCP-110	DQX	4.26	2.66	7.71
								10690	8650	367000
PRODUCTION	4-1/2"	4,165'	to	5,180'	11.60	HCP-110	DQX	83.01	3.70	16.10
								10690	8650	279000
	4-1/2"	5,180'	to	9,465'	11.60	HCP-110	LTC	>100	3.70	5.61

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 9.5 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 1297 psi

** Burst SF is low but casing is much stronger than formation at 2653'. EMW @ 2653' for 3520# is 25.5 ppg or 1.33 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% $CaCl_2$	215	60%	15.60	1.18
Option 1			+ .25 pps flocele				
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	50		15.60	1.18
			+ 2% $CaCl_2$ + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% $CaCl_2$	as req.		15.60	1.18
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	2,223'	65/35 Poz + 6% Gel + 10 pps gilsonite	520	35%	12.60	1.81
			+.25 pps Flocele + 3% salt BWOW				
	TAIL	500	Premium cmt + 2% $CaCl_2$	180	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% $CaCl_2$	as req.		15.60	1.18
INTERMEDIATE	LEAD	3,765'	Premium Lite II + 3% KCl + 0.25 pps	320	10%	12.50	1.98
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	1,570'	50/50 Poz/G + 10% salt + 2% gel	230	10%	14.30	1.25
			+.1% R-3				
PRODUCTION	LEAD		No cement will be used on Packers Plus Completion System				
	TAIL						

****Excess applied to the Lead slurry is calculated on Open hole Volume only.**

*Substitute caliper hole volume plus 5% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
INTERMEDIATE	Float shoe, 2 jt w/ centralizer on each, float collar. 1 centralizers on next 23 joints, total 25 centralizers
PRODUCTION	Packer Plus completion system

RECEIVED: May. 31, 2012

ADDITIONAL INFORMATION

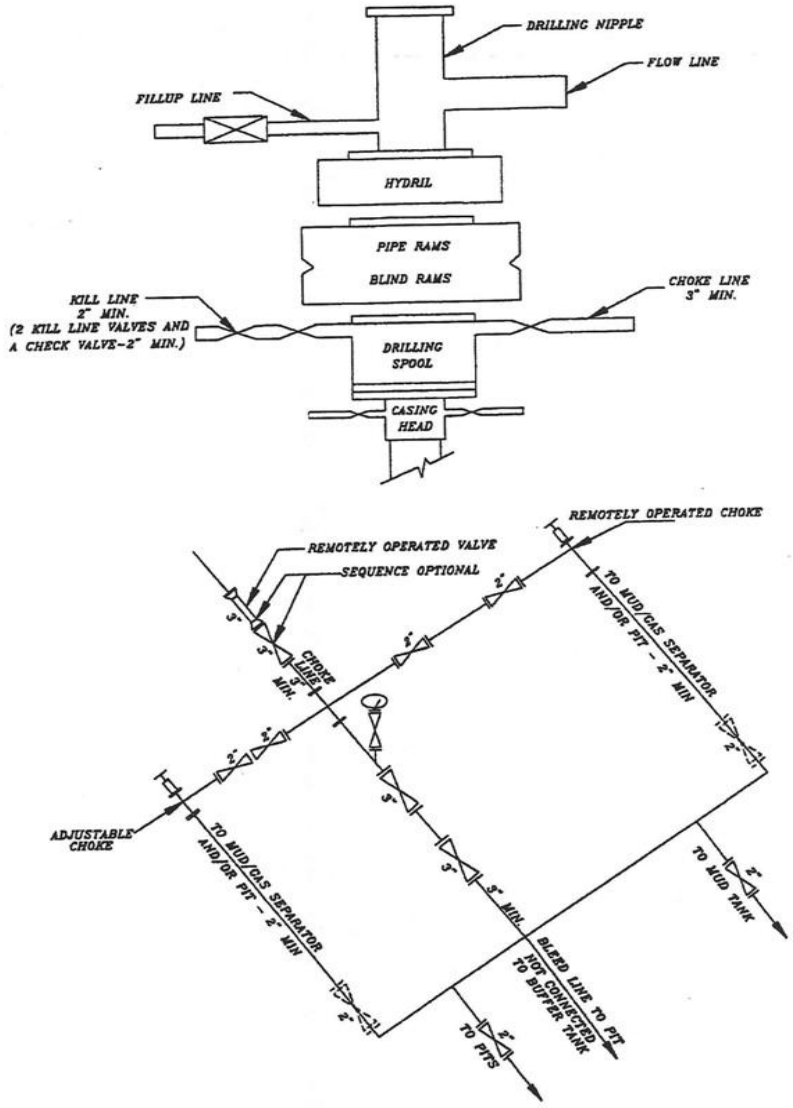
Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out. Test intermediate casing to 4500 psi prior to drill out.
BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder &
tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper
& lower kelly valves.
Survey with MWD every 100' during planned angle changes and every 500' when maintaining angle.
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: Danny Showers **DATE:** 5/16/2012

DRILLING SUPERINTENDENT: Lovel Young **DATE:**

RECEIVED: May. 31, 2012

EXHIBIT A
MAVERICK 921-27D-HZ



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

CONFIDENTIAL

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By KALIB FORD Phone Number 435-790-2921
Well Name/Number MAVERICK 921-27D-HZ
Qtr/Qtr NW4 NW4 Section 27 Township 9S Range 21E
Lease Serial Number UT ST UO 1194A ST
API Number 4304752051

Casing – Time casing run starts, not cementing times.

☐ Production Casing
☐ Other

Date/Time _ _ AM ☐ PM ☐

RECEIVED
JUN 14 2012
DIV. OF OIL, GAS & MINING

BOPE

☒ Initial BOPE test at surface casing point
☐ Other

Date/Time 6/14/2012 2 AM ☒ PM ☐

Rig Move
Location To:

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

State of Utah - Notification Form CONFIDENTIAL

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By KALIB FORD Phone Number 435-790-2921
Well Name/Number MAVERICK 921-27D-HZ
Qtr/Qtr NW4 NW4 Section 27 Township 9S Range 21E
Lease Serial Number UT ST UO 1194A ST
API Number 4304752051

Casing – Time casing run starts, not cementing times.

☐ Production Casing
☒ Other

Date/Time 6/17/12 6 AM ☐ PM ☒

BOPE
☐ Initial BOPE test at surface casing point
☐ Other

Date/Time _ _ AM ☐ PM ☐

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JUN 20 2012
DIV. OF OIL, GAS & MINING

Rig Move
Location To:

Date/Time _____ _____ AM ☐ PM ☐

Remarks RUN 5120' 7" INTERMEDET CASING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 1194A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: MAVERICK 921-27D-HZ

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047520510000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6526

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0384 FNL 0252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 6/27/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU ROTARY RIG. FINISHED DRILLING FROM 2530' TO 9403' ON 6/23/2012. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED PIONEER 54 RIG ON 6/27/2012 @ 6:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 02, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cara Mahler	720 929-6029	Regulatory Analyst I
SIGNATURE N/A		**DATE** 6/29/2012

RECEIVED: Jun. 29, 2012

CONFIDENTIAL

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# PIONEER 54
Submitted By STUART NEILSON Phone Number 435-790-2921
Well Name/Number MAVERICK 921-27D-HZ
Qtr/Qtr NW4 NW4 Section 27 Township 9S Range 21E
Lease Serial Number UT ST UO 1194A ST
API Number 4304752051

Casing – Time casing run starts, not cementing times.

☒ Production Casing
☐ Other

Date/Time 6/25/12 6 AM ☒ PM ☒

BOPE
☐ Initial BOPE test at surface casing point
☐ Other

Date/Time _ _ AM ☐ PM ☐

RECEIVED
JUN 2 6 2012
DIV. OF OIL, GAS & MINING

Rig Move
Location To: NBU 921-7L

Date/Time _____ _____ AM ☐ PM ☐

Remarks 4.5" PROD CASING HORIZONTAL F/ @ 5000'

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 1194A

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
MAVERICK 921-27D-HZ

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047520510000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0384 FNL 0252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 21.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 8/2/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well in July 2012. Well TD at 9,403'.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 06, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cara Mahler	720 929-6029	Regulatory Analyst I
SIGNATURE		**DATE**
N/A		8/2/2012

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UT ST UO 1194A

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
MAVERICK 921-27D-HZ

2. NAME OF OPERATOR:
KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER:
43047520510000

3. ADDRESS OF OPERATOR:
P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER:
720 929-6526

9. FIELD and POOL or WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
0384 FNL 0252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 21.0E Meridian: S

COUNTY:
UINTAH

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 8/2/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 8/2/2012. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
August 06, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Cara Mahler	720 929-6029	Regulatory Analyst I
SIGNATURE		**DATE**
N/A		8/6/2012

43-047-52051

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
http://www.blm.gov/ut/st/en.html

AUG 09 2012

IN REPLY REFER TO:
3180
UT-922100

Mr. Brett Torina
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Suite 1800
Denver, CO 80202

Dear Mr. Torina:

Enclosed is one approved copy of Communitization Agreement No. UTU89155. This agreement communitizes all rights as to oil, gas and associated liquid hydrocarbons producible from the Green River Formation, covering the W2W2 of Section 27, E2E2E2 of Section 28, NENENE of Section 33, and N2NWNW of Section 34, Township 9 South, Range 21 East, SLB&M, Uintah County, Utah. This agreement conforms to the spacing set forth in Order No. 197-012 issued by the Utah Board of Oil, Gas and Mining on January 9, 2012.

This agreement is effective as of May 1, 2012. The communitized area covers 270.00 acres and includes portions of Federal oil and gas lease UTU0576.

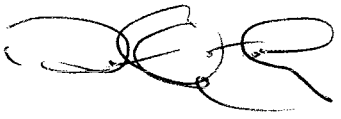
Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject leases which are committed hereto.

Office of Natural Resources Revenue Form MMS-4054, "Oil & Gas Operations Report", must be submitted for this agreement beginning with the month in which drilling operations commenced for the Maverick Federal 921-27D-HZ, located in the NW¼NW¼, Section 27, Township 9 South, Range 21 East, SLB&M, Uintah County, Utah, API # 43-047-52051, on State Lease 1194-A. Form MMS-4054 is to be mailed to the Office of Natural Resources Revenue, P.O. Box 25627, Denver, Colorado 80225-0627.

RECEIVED
AUG 14 2012
DIV. OF OIL, GAS & MINING

Please furnish all interested principals with necessary evidence of this approval.

Sincerely,



Roger L. Bankert
Chief, Branch of Minerals

Enclosure

cc: UDOGM
SITLA
ONRR w/enclosure (Attn: Leona Reilly)
BLM FOM - Vernal w/enclosure

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 1194A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: MAVERICK 921-27D-HZ

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047520510000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6515

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0384 FNL 0252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 27 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 9/5/2012	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Started completing the well in August 2012. Well TD at 9,403

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 11, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		9/5/2012

CONFIDENTIAL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UT ST UO 1194A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: UTU88574X

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: MAVERICK 921-27D-HZ ✓

2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 4304752051

3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217

PHONE NUMBER: (720) 929-6000

10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: NWNW S27,T9S,R21E 384 FNL 252 FWL

AT TOP PRODUCING INTERVAL REPORTED BELOW: NWNW S27,T9S,R21E 1192 FNL 194 FWL

AT TOTAL DEPTH: SWSW S27,T9S,R21E 97 FSL 157 FWL BHL by HSM

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 27 9S 21E S

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED: 5/17/2012

15. DATE T.D. REACHED: 6/23/2012

16. DATE COMPLETED: 8/2/2012 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 4934 GL

18. TOTAL DEPTH: MD 9,403 TVD ~~4,718~~ 4721

19. PLUG BACK T.D.: MD 9,403 TVD ~~4,718~~ 4721

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

PPC CALIPER, PE/LD/AI/GR, FMI

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☑ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
12.25"	9.625" J-55	36#	0	2,516		630		0	
8.75"	7" P110	26#	0	5,198		545			
6.125"	4.5" p110	11.6#	4,221	9,388					

RECEIVED
SEP 25 2012
DIV. OF OIL, GAS & MINING

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	4,158							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) GREEN RIVER	5,328	9,273		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
STAGE 1 (-9154)	PUMP 60,293 BBLS Crosslinked/ Linear Gel & 2,519,900 LBS 100 MESH, 20/40, AND SB EXCEL.
STAGE 2 (9154-8906)	19 STAGES
STAGE 3 (8906-8702	

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☑ OTHER: FRAC STAGES

30. WELL STATUS: PROD

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
8/2/2012	8/5/2012	24		244	1,493	0	PUMPING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
20/64	527	1,051					244	1,493	0	PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,560
				BIRD'S NEST	1,770
				MAHOGANY	2,260
				UTELAND BUTTES	4,800

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history & final survey. An Openhole Packers Plus sliding sleeve liner was used therefore there are no perforations.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) CARA MAHLER TITLE REGULATORY ANALYST

SIGNATURE DATE 9/6/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

Frac Stages 4-19

Interval	Pkr	Pkr
STAGE 4	8702	8498
STAGE 5	8498	8295
STAGE 6	8295	8047
STAGE 7	8047	7798
STAGE 8	7798	7595
STAGE 9	7595	7391
STAGE 10	7391	7187
STAGE 11	7187	6984
STAGE 12	6984	6780
STAGE 13	6780	6532
STAGE 14	6532	6328
STAGE 15	6328	6125
STAGE 16	6125	5880
STAGE 17	5880	5632
STAGE 18	5632	5428
STAGE 19	5428	5224

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/28/2012	0:00 - 8:00	8.00	SURFPR	46	D	P		Wait on daylight.
	8:00 - 17:00	9.00	SURFPR	47	A	P		Roustabout crew dig up cellar and bury mouse hole. Prep location for completion stage.
	17:00 - 0:00	7.00	SURFPR	46	D	P		SDFN.
6/29/2012	0:00 - 8:00	8.00	SURFPR	46	D	P		Wait on daylight.
	8:00 - 12:00	4.00	SURFPR	47	A	P		JD Services delivered forklift with manbasket. MIRU Cameron. NU 7" 10 K frac stack. Torque to spec.
	12:00 - 0:00	12.00	SURFPR	46	F	P		SDFWE, WL set for 7/2/12. CBL and RIH with Baker 4 1/2" plug, test casing and TOL.
7/2/2012	0:00 - 8:00	8.00	SUBSPR	46	D	P		Well shut in. Wait on daylight.
	8:00 - 9:00	1.00	SUBSPR	34	1	P		MIRU Cased Hole Solution. Safety meeting. NU 7" 10K flange. Certified operators on manbasket from JD Services. MU tools 3.66" gauge ring and junk basket run.
	9:00 - 9:45	0.75	SUBSPR	34	G	P		RIH w/ gauge ring and junk basket. Several attempts to work through TOL 4210'. Work through TOL and stack out at next collar 4265'. Attempt 10 times to work through. POOH.
	9:45 - 10:05	0.33	SUBSPR	34	G	P		OOH w/ 3.66" GR and junk basket. Two 2"x1" chunks of cement wedged in basket. Make second run with 3.66" gauge ring.
	10:05 - 10:30	0.42	SUBSPR	34	G	P		RIH and again tag up 4265', work several times and able to get obstruction to move. Made hole to 4313'. POOH.
	10:30 - 10:50	0.33	SUBSPR	34	G	P		OOH w/ 3.66" gauge ring and junk basket. No debris. Cased hole solutions hot shot out 3.75" gauge ring. MU, RIH w/ 3.75".
	10:50 - 11:20	0.50	SUBSPR	34	G	P		RIH, work through TOL with 3.75" gauge ring. RIH to 4313' and work obstruction to 4410'. POOH.
	11:20 - 12:00	0.67	SUBSPR	34	G	P		OOH w/ 3.75", no debris in junk basket.
	12:00 - 13:30	1.50	SUBSPR	34	I	P		RIH w/ Baker 4 1/2" Wireline set/RBP. Work through TOL and position plug 4370'. B & C quick test fill hole and put 1000 psi on well. Wireline set plug 4370'. POOH, Bleed down psi.
	13:30 - 16:30	3.00	SUBSPR	41	A	P		MU and RIH with CCL,CBL,GR- sector bond logging tools. Work through liner top 4210', log from 4276' to surface with 2800 psi applied to wellbore. Cement good with TOC to surface.
	16:30 - 17:15	0.75	SUBSPR	34	1	P		Rig down Wireline. MIRU B & C quick test.
	17:15 - 20:00	2.75	SUBSPR	47	B	P		Begin psi test on casing. Stinger grease fitting leaking. Bleed down. Tie into tubing head. Close bottom frac valve. Test again, psi casing to plug to 8500 psi. Hold psi for one hour. Test good. Bleed down. RDMO B & C testers.
	20:00 - 20:30	0.50	SUBSPR	47	C	Z		Wait on oil states to bring out/swap out bad grease fittings on top crown valve.
	20:30 - 21:15	0.75	SUBSPR	47	C	Z		Change out fitting on crown valve. Secure well. SDFN.
	21:15 - 0:00	2.75	SUBSPR	46	D	P		SDFN.

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ			Spud Date: 5/24/2012
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/3/2012	8:00 - 12:00	4.00	SURFPR	47	B	P		MIRU B & C Quicktest. Test across frac stack to 8500 psi. Outside wing valve replaced, leaked. Called out Cameron and replaced. Frac stack good. SDFN.
7/4/2012	-							
7/5/2012	7:00 - 19:00	12.00	SURFPR	47	A	P		Battery and pit construction continues. Moved in two frac and one flowback tank for CTU. Roustabouts tie in flowline for circulation during CT work. JD Services spotted and hauled in 750 bbls treated water.
7/6/2012	7:04 - 7:25	0.35	COMP	48		P		ARRIVE ON LOCATION WITH CTU,HAVE SAFETY MEETING
	7:25 - 11:38	4.22	COMP	32	A	P		MIRU CTU,FUNCTION TEST TOOLS,PRESSURE TEST BOP AND CTU IRON TO 5,000 PSI
	11:38 - 14:51	3.22	COMP	32	A	P		RIH,WEIGHT CHECK @ 4,032'=7,500#,TAG PLUG @ 4,381'= -2,000#,PLUG RELEASED/ POOH,OOH @ 14:51
	14:51 - 18:50	3.98	COMP	32	A	P		ND RBP AND TOOLS,NU VENTURI ,RIH,WEIGHT CHECK @ 4,032'=9,500#,FLUID RATE @ 2.5BPM,SEND A SWEEP @ 5,065',RIH TO 5,278',POOH,VENTURI WAS 3/4 FULL AND HAD LOTS OF CEMENT IN IT,SOME OF THE SAMPLES ARE 2"X2" ROCK SIZE,WILL MAKE A SECOND RUN
	18:50 - 22:00	3.17	COMP	32	A	P		NU TOOLS RIH WITH 2ND VENTURI RUN,WEIGHT CHECK @ 4,032=9,500#,FLUID RATE @ 2.5BPM,SEND SWEEP @ 5,065',RIH TO 5,278',POOH OOH WITH VENTURI,ONE ROCK ABOUT 3"X3" AND JUST A LITTLE METAL AND PINS FROM PACKERS
	22:00 - 23:30	1.50	COMP	32	A	P		RDMO CTU,SHUT IN WELL,WAIT FOR DFIT ON 7/9/12
7/9/2012	8:00 - 10:00	2.00	COMP	33	D	P		MIRU HES HP.HALLIBURTON ON LOCATION WITH DFIT GAUGES.SPOT TANKER TO FILL CASING,SAFETY MTG.PSI TEST HES IRON TO 8500PSI.OPEN WELL,PUMP 2 BPM TO 3150 PORT SHIFTED,RATE TO 10 BPM @ 1950 AVG PSI PUMP 100BBLS @ 10 BPM.SD ISIP 1421, 5 MIN. 1233,10 MIN. 1118, 15 MIN. 1041
	10:00 - 18:00	8.00	COMP	47	A	P		FINISH FLOWBACK CONTAINMENT , MOVE IN FRAC TANKS AND FINISH FILLING 55 TANKS,HAUL OFF WATER USED FOR CTU TO DISPOSAL.
7/11/2012	6:00 - 18:00	12.00	COMP	46	F	P		finish flowback containment,finish filling all 55 frac tanks with fresh wate,pit liner installed and started hauling water to pit
7/12/2012	8:00 - 9:00	1.00	FRAC	33	D	P		Halliburton on location, download DFIT gauges. Data good. Remove gauges and iron.
	9:00 - 17:00	8.00	FRAC	47	A	P		Continue filling frac pit, JD Services. Sweetwater Services treating and rolling 55 frac tanks.

US ROCKIES REGION

Operation Summary Report

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Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/16/2012	7:00 - 17:00	10.00	SURFPR	47	A	P		MIRU Weatherford on NBU 183 & NBU 56N2 MONITOR WELLS. Roustabout crew ND plunger lift iron. ND 7 1/16" 5K tubing head flange. NU Weatherford 7 1/16" 5K BOP. Test casing string on each well to 1500 psi. Record/Chart. Casing tested good on each monitor well. RDMO Weatherford, psi truck. MIRU Weatherford PSI truck on Maverick. HU to Pure Energy flowback line. Fill lines and equipment with fluid. Test lines and equipment to 8500 psi. JD Services finished hauling frac water to pit. Chatman Construction completed installation of bird netting. Midstream completed psi test on flowline. Sweetwater MIRU pump and manifold for water transfer during frac.
7/17/2012	8:00 - 17:00	9.00	SURFPR	47	A	P		HES MIRU water manifold, spot sand cans. Begin hauling sand. . Slickline RIH on monitor well NBU 183, depth 5433'. RIH on NBU 56N2, depth 5395'.
7/18/2012	7:00 - 11:30	4.50	FRAC	47	A	P		MIRU Delsco swabbing unit on MONITOR wells and swab down fluid 1000' from surface. MIRU Schlumberger wireline and seismic tools. 3rd party cranes. RIH w/ tools. Use vibe truck to orient tools.
	11:30 - 21:00	9.50	FRAC	47	A	P		MIRU HES frac equipment, Witness and load Oil States ball dropper. Prime up equipment. Safety meeting. PSI test iron and equipment to 8500 psi. SDFN.
7/19/2012	4:00 - 12:25	8.42	FRAC	47	B	P		HES on location. S & S frac equipment. Spot and hook up backside pump for ball drop. Bucket test frac additives. Hoses are making containment walls around blender laydown. Blocked up hoses so that containment walls stay up. Safety meeting with all frac personnel. PSI test frac lines and wellhead valves. PSI test Pure flowback lines. Test 2" line from acid pumper. Set frac line pop-off valves to design, set surface casing pop-off. 10:20 Pressure test, 9060 psi main line, 8970 ball launch pump, 7547 psi main line pop-off, 575 surface casing pop-off
	12:25 - 15:26	3.02	FRAC	36	B	P		Stage 1 pumped with a few changes on design. SD after 100 mesh. Manifold water release. Started back in crosslink. Did not go above 3 ppg and ended at 2 ppg during resin. ATP – 5391 psi ATR – 40.1 bpm. Ball seated with good shift at 15:26 to open stage 2.
	15:26 - 17:31	2.08	FRAC	36	B	P		Stage 2 pumped as designed. ATP – 4066 psi ATR – 41 bpm. Ball seated with good shift at 17:31 to open stage 3. Stage 3 started with higher treating pressures.
	17:31 - 19:37	2.10	FRAC	36	B	P		Stage 3 started at 17:31, pumped as designed. ATR 41.1 BPM, ATP 3399 psi, ISIP 2007 psi, FG 0.85. Ball for stage 4 hit at 19:37 with normal sleeve shift. Shut down to restart IFS. Will begin stage 4 shortly.

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ			Spud Date: 5/24/2012
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	19:37 - 20:07	0.50	FRAC	46	F	P		not enough stages loaded into job on hess computer system, so we had to shut down computers, load more stages in the job and reboot computers
	20:07 - 21:08	1.02	FRAC	36	B	P		Stage 4 started at 20:07, pumped nearly to design with 2 100 mesh stages due to pressure increase with first 100 mesh stage. ATP 5175 psi, ATR 59.2 bpm.
	21:08 - 21:51	0.72	FRAC	36	B	P		Sleeve for stage 5 shifted with normal shift at 21:08. Stage 5 started at 21:08. Increasing pressures when 100 mesh stages hit, continued to increase with decreased rates, pumped slugs of 20/40 and continued to see increasing pressures. Decision was to continue with stage 6. Stage 5 ATR 49.9 bpm, ATP 5907 psi.
	21:51 - 22:59	1.13	FRAC	36	B	P		Sleeve shifted for stage 6 at 21:50 at lower pressure Stage 6 started at 21:51. Ran 2 100 mesh stages due to higher pressures. Pumped the rest to design. ATP 5684 psi, ATR 60.2 bpm.
	22:59 - 23:55	0.93	FRAC	36	B	P		Sleeve for stage 7 shifted to higher pressures Stage 7 started at 22:59, pumped as designed. ATP 5639 psi, ATR 59.8 bpm.
7/20/2012	0:00 - 0:47	0.78	COMP	36	B	P		Sleeve for stage 8 shifted at 23:55, puming now. Stage 8 started at 23:55. Pumped as designed. ATP 5287 psi, ATR 61.1 bpm.
	0:47 - 1:39	0.87	COMP	36	B	P		Sleeve shifted for stage 9 at 00:47, 10 bbls late. Stage 9 started at 0:48, pumped as designed. ATP 5132 psi, ATR 61.0 bpm.
	1:39 - 2:30	0.85	COMP	36	B	P		Sleeve shifted for stage 10 5 bbls early, normal shift. Stage 10 started at 1:39, pumped as designed. ATP 5119 psi, ATR 60.9 bpm.
	2:30 - 3:20	0.83	COMP	36	B	P		Sleeve for stage 11 shift normal to lower pressures, 3 bbls early. Stage 11 started at 2:30. Pumped as designed. ATP 4644 psi, ATR 61.2 bpm.
	3:20 - 4:10	0.83	COMP	36	B	P		Sleeve for stage 12 shifted 9 bbls early to higher pressures Stage 12 started at 3:20, pumped as designed. ATP 4986 psi, ATR 61 bpm.
								Sleeve for stage 13 shifted at 4:10, pumped 20 bbls over and shut down for sand and fuel. Expect 45 minute delay.

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ			Spud Date: 5/24/2012
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:10 - 5:15	1.08	COMP	46	E	Z		shut down for sand and fuel. Expect 45 minute delay. Resumed pumping at 5:15
	5:15 - 6:05	0.83	COMP	36	B	P		Stage 13 pumped per design. ATP 4719 psi, ATR 59.5a bpm. Sleeve for stage 14 shifted at 6:05.
	6:05 - 8:25	2.33	COMP	36	B	P		Stage 14 pumped as designed. ATP 61 bpm, ATR 4699 psi Did not see ball seat. Surged back 1 min and pumped into. SD to confirm ball had launched. Surged back 3 times for 1 min each and pumped into. Surged back 2 times for 3 minutes each and pumped into. Had discussion with Tom and team and agreed to start stage 15 fluid to see if we see sleeve shift. Had 500 psi pressure increase during pad but did not see sleeve open. Started sand. Had 1000 psi sudden pressure decrease at 08:25. Towards end of job, microseismic confirmed that new events started near Stg 15 at 08:25. Felt comfortable that Stg 15 was fraced. Continued to Stage 16. Stage 15 pumped. ATR 58.7 bpm, ATP 4799 psi. Good ball seat to open Stage 16.
	8:25 - 9:52	1.45	COMP	36	B	P		Stage 16 pumped as designed. ATR 57.2 bpm, ATP 4230 psi. Good ball seat to open Stage 17.
	9:52 - 11:44	1.87	COMP	36	B	P		Stage 17 pumped as designed. ATR 56 bpm, ATP 4053 psi. Good ball seat to open Stage 18. Waiting on 100 mesh to finish last two stages. Expect to be down ~ 2 hrs.
	11:44 - 14:25	2.68	COMP	46	F	Z		Wait on 100 mesh sand delivery from Vernal. Excess 100 mesh used in prior stages.
	14:25 - 15:45	1.33	COMP	36	B	P		Stage 18 pumped as designed. ATR 58.2 bpm, ATP 4578 psi. Good ball seat to open Stage 19.
	15:45 - 16:36	0.85	COMP	36	B	P		Stage 19 pumped as designed. ATR 58.2 bpm, ATP 4411 psi. ISDP 3327 psi, FG = 1.12 5 min 2880 psi, 10 min 2572 psi Frac is complete. RD Halliburton. Will be shut-in for 24 hrs to let resin sand set up. Will rig up with coil for drill out tomorrow afternoon.
	16:36 - 0:00	7.40	COMP	36	1	P		Frac completed, rig down Oil States, Protechncis, Schlumberger Micro-seismic, and HES frac equipment. Vac lines and manifold. Vac containment berms and clean location. Well shut in for 24 hrs.
7/21/2012	7:00 - 13:00	6.00	DRLOUT	47	A	P		Spot 5 frac tanks and fill with batched water from frac tanks and frac water from pit.
	13:00 - 16:15	3.25	DRLOUT	32	1	P		MIRU Basic CTU. MU Coil connection. Pull and psi test. MU tool string, 3.8125" 5 blade mill. MU to wellhead. Safety meeting. PSI test to 5500 psi through lubricator and flowback iron. 24 hr wait period elapsed. Ready to RIH.

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ			Spud Date: 5/24/2012
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:15 - 17:26	1.18	DRLOUT	32	F	P		Open well and RIH. Bring fluid online @ 200', .5 bpm. Perform weight check @ 4100'. String weight 13500 #.
	17:26 - 18:05	0.65	DRLOUT	32	F	P		RIH through liner top and tag @ 5316'. 4080 circ psi, 831 psi wellhead psi. 8 cycles
	18:05 - 19:31	1.43	DRLOUT	32	A	P		increase rate to 2.8 bpm,depth 5,317' sw 1000,cp 4100,whp 811
	19:31 - 19:45	0.23	DRLOUT	32	A	P		decrease rate to 2.5 bpm,depth 5,317' sw 800,cp 3600,whp 830
	19:45 - 19:49	0.07	DRLOUT	32	A	P		send 10 bbl sweep 2.5 bpm,depth 5,318' s/w 800,cp 3600,whp 830
	19:49 - 19:53	0.07	DRLOUT	32	A	P		increase rate to 2.8 bpm 2.5 bpm,depth 5,318' s/w 1,500,cp 4400,whp 738
	19:53 - 20:05	0.20	DRLOUT	32	A	P		decrease rate to 2.5 bpm 2.5 bpm,depth 5,317' s/w 2,100,cp 3750,whp 778
	20:05 - 20:15	0.17	DRLOUT	32	A	P		increase rate to 2.8 bpm 2.8 bpm,depth 5,318' s/w 5,316,cp 4,081,whp 844
	20:15 - 20:18	0.05	DRLOUT	32	A	P		decrese rate to 2.5 bpm 2.5 bpm,depth 5,316' s/w 2,000,cp 3468,whp 808
	20:18 - 20:49	0.52	DRLOUT	32	A	P		send 10 bbl sweep 2.5 bpm,depth 5,318' s/w -2,500,c/p 3514,whp 631
	20:49 - 20:51	0.03	DRLOUT	32	A	P		increase rate to 2.8 bpm depth 5,318' s/w -1,950,c/p 4100,whp 640
	20:51 - 21:30	0.65	DRLOUT	32	A	P		send 10 bbl sweep 2.8 bpm,depth 5,332' s/w 3,200,c/p 4305,whp 602
	21:30 - 22:16	0.77	DRLOUT	32	A	P		send 10 bbl sweep 2.8 bpm,depth 5,330' s/w 1,580 c/p 4146,whp 597
	22:16 - 22:30	0.23	DRLOUT	32	A	P		send 20 bbl sweep 2.8 bpm,depth 5,329' s/w 2,000 ,c/p 4,240,whp 575
	22:30 - 22:47	0.28	DRLOUT	32	A	P		wiper trip 2.8 bpm depth 5,328' s/w 16,500 c/p 4240,whp 570
	22:47 - 23:12	0.42	DRLOUT	32	A	P		rih 2.8 bpm depth 4,230' s/w 12,700 c/p 3797,whp 572
	23:12 - 23:35	0.38	DRLOUT	32	A	P		re-tag 2.8 bpm depth 5,326' s/w 5,000 c/p 4062,whp 552 cycles 2
	23:35 - 0:00	0.42	DRLOUT	32	A	P		send 20 bbl sweep 2.8 bpm depth 5,330' s/w 5,200 c/p 3877,whp 535
7/22/2012	0:00 - 2:15	2.25	COMP	32	A	P		pooh
	2:15 - 3:32	1.28	COMP	32	A	P		pull off well and replace motor,set on well,function test,pressure test to 5,000 psi,rih,bring on fluid @ 200' 0.5 bpm s/w -1,546 c/p 848 whp 512
	3:32 - 4:19	0.78	COMP	32	A	P		weight check increase rate 2.5 bpm depth 4,050' s/w 11,260 c/p 3154 whp 551

US ROCKIES REGION

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:19 - 4:50	0.52	COMP	32	A	P		re-tag @ 5,316' @ 2.5 bpm s/w 13,488 c/p 3144 whp 478 cycles 12
	4:50 - 5:38	0.80	COMP	32	A	P		increase rate to 2.8 bpm @ 5,308' s/w 11,504 c/p 3793 whp 430
	5:38 - 6:06	0.47	COMP	32	A	P		decrease rate to 2 bpm @ 5,318' s/w 10,700 c/p 2281 whp 445
	6:06 - 6:27	0.35	COMP	32	A	P		increase rate to 2.5 bpm @ 5,319' s/w 3,500 c/p 3350 whp 427
	6:27 - 7:08	0.68	COMP	32	A	P		Send 10 bbl sweep.
	7:08 - 10:22	3.23	COMP	32	A	P		Vary rates and work string. Unable to make hole. 18 stalls. Last stall we were unable to get any torque and had negative weight on the string. Motor failed. POOH.
	10:22 - 11:47	1.42	COMP	32	A	P		OOH w/ tools. Function test motor and confirmed it was bad. Hot shot another motor from Fort Morgan yard.
	11:47 - 13:20	1.55	COMP	32	A	P		Cut 100' of coil string. MU 2" wash nozzle, slick string. MU to well.
	13:20 - 16:10	2.83	COMP	32	A			RIH w/ 2" slick string. RIH through first sleeve. RIH to top of 2nd sleeve. Pump sweep. POOH.
	16:10 - 18:30	2.33	COMP	32	A	P		OOH w/ wash nozzle assembly. Break down tools. MU to well and wait on motor to AOL.
	18:30 - 22:40	4.17	COMP	46	F	P		wait on new motors from colorado
	22:40 - 23:42	1.03	COMP	32	A	P		pull off well,mu coil connector/pull test to 25k pressure test bha to 2500 psi set on well,function test
	23:42 - 0:00	0.30	COMP	32	A	P		pressure test stack to 5,500psi open well,rih bring pump online @ 200' s/w -3,500 cp 902 whp 407
7/23/2012	0:00 - 0:50	0.83	COMP	32	A	P		weight check / increase fluid rate 2.5 bpm, depth 4,100' s/w 9,700 cp 3280 whp 411
	0:50 - 1:22	0.53	COMP	32	A	P		tag obstruction 2.5 bpm,depth 5,317' s/w 3,100 cp 3766 whp 389 cycles 20
	1:22 - 4:11	2.82	COMP	32	A	P		change rate to 2.8 bpm depth 5,321' s/w 8,645 cp 3476 whp 327
	4:11 - 5:35	1.40	COMP	32	A	P		send 20 bbl sweep change rate to 2.5 bpm
	5:35 - 6:18	0.72	COMP	32	A	P		wait for sweep to clear,pooh
	6:18 - 9:19	3.02	COMP	32	A	P		cut fluid @ 200',ooh,nd motor cut off 100' of coil,n/u coil connector/pull test to 25k,n/u bha,function test,set on well,pressure test to 5000 psi,rih
	9:19 - 9:24	0.08	COMP	32	A	P		bring pump online 0.5 bpm,depth 200' s/w -1,400 cp 588 whp 242
	9:24 - 10:21	0.95	COMP	32	A	P		weight check/increase fluid rate 2.5 bpm,depth 4,125' s/w 12,000 cp 2450 whp 250
	10:21 - 10:57	0.60	COMP	32	A	P		tag sleeve #1 2.5 bpm,depth 5,314' sw 4,500 cp 2417 whp 267 cycles 15

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:57 - 16:00	5.05	COMP	32	A	P		pull up off sleeve 2.5 bpm,depth 5,316' sw 17,500,cp 2280,whp 214
	16:00 - 16:09	0.15	COMP	32	A	P		re-tag sleeve #1 2.5 bpm,depth 5,315' sw 7,500 whp 214
	16:09 - 19:18	3.15	COMP	32	A	P		send 10 bbl sweep 2.5 bpm,depth 5,324' sw 8,158,cp 2194,whp 179,cycles 2
	19:18 - 19:50	0.53	COMP	32	A	P		through sleeve #1 2.5 bpm,depth 5,325' sw 8230,cp 2259,whp 180
	19:50 - 19:56	0.10	COMP	32	A	P		tag sleeve #2 2.5 bpm,depth 5,510' sw 4,198,cp 2332,whp 188,cycles 7
	19:56 - 20:18	0.37	COMP	32	A	P		through sleeve #2 / send 10 bbl sweep 2.5 bpm,depth 5,512' sw 8,844,cp 2326,whp 184
	20:18 - 20:20	0.03	COMP	32	A	P		tag obstruction 2.5 bpm,depth 5,550' cycles 10
	20:20 - 20:40	0.33	COMP	32	A	P		send 10 bbl sweep 2.5 bpm,depth 5,557' sw 7,870,cp 2277,whp 167
	20:40 - 21:35	0.92	COMP	32	A	P		tag sleeve #3 2.5 bpm,depth 5,713' sw 5,722,cp 2223,whp 164 cycles 6
	21:35 - 22:09	0.57	COMP	32	A	P		through sleeve #3,send 10 bbl sweep 2.5 bpm,depth 5,715' sw 6,662,cp 2353,whp 163
	22:09 - 22:20	0.18	COMP	32	A	P		tag sleeve #4 2.5 bpm,depth 5,960 sw 6,202,cp 2465,whp 165 cycles 9
	22:20 - 23:00	0.67	COMP	32	A	P		through sleeve # 4 / send 10 bbl sweep 2.5 bpm,depth 5,962' sw 9,345,cp 2217,whp 166
	23:00 - 0:00	1.00	COMP	32	A	P		tag sleeve #5 2.5 bpm,depth 6,205 sw 7,890,cp 2256,whp 163 cycles 17
7/24/2012	0:00 - 0:48	0.80	DRLOUT	32	F	P		Drilled through plug #5, send 20 bbl sweep. 8793 # string weight. 2.5 bpm circ rate. 6207', 2365 circ psi, 153 psi wh psi. POOH to add NOV agitator and new 3.75" 5 blade mill.
	0:48 - 3:09	2.35	DRLOUT	32	F	P		OOH w/ coil and drill-out assembly. Mill spent. BD tool string, add NOV tool and new 3.75" 5 blade mill.
	3:09 - 3:56	0.78	DRLOUT	47	A	P		Mill spent. BD tool string, add NOV tool and new 3.75" 5 blade mill. RU back to wellhead.
	3:56 - 5:19	1.38	DRLOUT	32	F	P		Open well, RIH to 4100'. Weight check 21000#. 171 psi on wellhead.

Operation Summary Report

Well: MAVERICK 921-27D-HZ			Spud Date: 5/24/2012
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:19 - 10:33	5.23	DRLOUT	32	F	P		Work down through first 5 drilled out sleeves. Stalled several times, new mill w/ slightly bigger OD is catching in sleeves. Work back through all 5 sleeves..
	10:33 - 11:43	1.17	DRLOUT	32	F	P		Tag sleeve #6 6423', 10700 # string weight. 2766/129 wh psi. 2.5 bpm circulation rate, 3.5 bpm to flowback.
	11:43 - 11:52	0.15	DRLOUT	32	F	P		Through sleeve #6. 5198 bbls pumped. 2720 circ/ 145 wh.
	11:52 - 12:11	0.32	DRLOUT	32	F	P		Tag sleeve #7 6627'. 5800 string wt. 2701/130 wh psi.
	12:11 - 12:22	0.18	DRLOUT	32	F	P		Through sleeve #7. 2855/128 wh psi. 5266 bbls pumped.
	12:22 - 12:35	0.22	DRLOUT	32	F	P		Tag sleeve #8 6873'. 12400 string wt. 3248 circ/137 wh.
	12:35 - 12:43	0.13	DRLOUT	32	F	P		Through sleeve #8. 2874 circ/121 wh psi. 5328 bbls pumped.
	12:43 - 12:56	0.22	DRLOUT	32	F	P		Tag sleeve #9 7076'. 9000 string wt. 2917 circ/ 125 wh psi.
	12:56 - 13:04	0.13	DRLOUT	32	F	P		Through sleeve #9, send sweep. 5381 bbls pumped. 2915 circ/ 127 wh psi.
	13:04 - 13:25	0.35	DRLOUT	32	F	P		Tag sleeve #10 7279'. 10000 string wt. 2950 circ/ 114 wh psi.
	13:25 - 13:33	0.13	DRLOUT	32	F	P		Through sleeve #10, send 20 bbl sweep. 5453 bbls pumped.
	13:33 - 13:40	0.12	DRLOUT	32	F	P		Tag sleeve #11 7484'. POOH for wiper run above TOL.
	13:40 - 15:25	1.75	DRLOUT	32	F	P		POOH above TOL. Wiper complete. Had to have nitrogen assist during wiper. Returns to flowback @ 2.5 bpm. WH psi 110 psi. Flowback choke wide open.
	15:25 - 16:02	0.62	DRLOUT	32	F	P		RIH after wiper run. Tag obstruction 5571'. Drill on for twenty minutes.
	16:02 - 16:22	0.33	DRLOUT	32	F	P		Through obstruction. RIH to sleeve #11.
	16:22 - 17:30	1.13	DRLOUT	32	F	P		Re-tag #11 7480'. 2684/283 wh psi.
	17:30 - 17:48	0.30	DRLOUT	32	F	P		Through sleeve #11. 6020 bbls pumped. 11273 string weight. 2646 circ/274 wh psi.
	17:48 - 17:57	0.15	DRLOUT	32	F	P		Tag sleeve #12 7683'.
	17:57 - 19:34	1.62	DRLOUT	32	A	P		through sleeve send sweep 2.0 bpm,n2 rate 500,depth 7,685' sw 10,630 cp 2491 whp 363
	19:34 - 19:47	0.22	DRLOUT	32	A	P		tag sleeve #13 @ 7,888'
	19:47 - 19:51	0.07	DRLOUT	32	A	P		cut nitrogen
	19:51 - 20:05	0.23	DRLOUT	32	A	P		increase rate to 2.5
	20:05 - 20:49	0.73	DRLOUT	32	A	P		through sleeve send 10 bbl sweep 2.5 bpm,depth 7,889' sw 11,601 cp 2609 whp 219
	20:49 - 21:00	0.18	DRLOUT	32	A	P		tag sleeve #14 @ 8,136'
	21:00 - 21:12	0.20	DRLOUT	32	A	P		through sleeve send 10 bbl sweep bring n2 online drop rate to 2.0 n2 rate 500.0 depth 8,136 sw 10,987 cp 2185 whp 132
	21:12 - 21:23	0.18	DRLOUT	32	A	P		tag sleeve #15 @ 8,384'

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ	Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012	End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	21:23 - 22:05	0.70	DRLOUT	32	A	P		cut n2 increase fluid rate to 2.5 bpm
	22:05 - 22:23	0.30	DRLOUT	32	A	P		through sleeve send 10 bbl sweep 2.5 bpm ,depth 8,382' sw 11,768 cp 2577 whp 138
	22:23 - 22:31	0.13	DRLOUT	32	A	P		tag sleeve #16 @ 8,588'
	22:31 - 0:00	1.48	DRLOUT	32	A	P		drop fluid rate to 2.0 bpm ,bring on n2 @ 500.0 scf/min @ 8,588' start pooh for wiper run to 4,200'
7/25/2012	0:00 - 1:56	1.93	DRLOUT	32	F	P		Wiper complete above TOL 4200'. RIH and re-tag sleeve #16.
	1:56 - 2:12	0.27	DRLOUT	32	F	P		Re-tag sleeve #16 8582'. 9904 string weight. 2871 circ psi/ 258 wellhead psi. 2.5 bpm circ rate.
	2:12 - 2:18	0.10	DRLOUT	32	F	P		Tag sleeve #17 8786'. Circ 2981/ wh 261. String wt. 8970#.
	2:18 - 2:31	0.22	DRLOUT	32	F	P		Through sleeve #17, send 10 bbl sweep. 11544 sting weight. 2531 circ psi/ 195 wh psi.
	2:31 - 2:37	0.10	DRLOUT	32	F	P		Tag sleeve #18 8990'. Circ psi 2789/. wh psi 203. String wt. 7941 #.
	2:37 - 2:49	0.20	DRLOUT	32	F	P		Through sleeve #18. Send 10 bbl sweep. 11232 string wt. 2437 circ psi/ 138 wh psi.
	2:49 - 2:58	0.15	DRLOUT	32	F	P		Bring on nitrogen/ drop fluid rate. 2642 circ psi/ 142 wh psi. 9215' depth.
	2:58 - 3:10	0.20	DRLOUT	32	F	P		@ 9300'. 16214 string weight. 2318 circ psi/ 140 wh psi. Begin POOH.
	3:10 - 7:56	4.77	DRLOUT	32	F	P		@ surface with drill-out tools. Cut fluid. Secure well. RD off WH.
	7:56 - 9:40	1.73	DRLOUT	32	A	P		Breakdown drill-out tools. 3.75" blade mill used up. Test connection and motor. MU Venturi, Function test Venturi. MU to wellhead.
	9:40 - 10:51	1.18	DRLOUT	32	A	P		@ 4000'. Weight check 11600#. RIH
	10:51 - 14:12	3.35	DRLOUT	32	A	P		@ TD 9326'. Sit and circulate, pump 20 bbl sweep. POOH. Tools went right through sleeves. No obstructions running to depth.
	14:12 - 17:30	3.30	DRLOUT	32	A	P		@ Surface with Venturi tools. BD off wellhead.
	17:30 - 18:22	0.87	DRLOUT	32	A	P		Breakdown Venturi basket. one qt of material. Metal rings, small pieces of shale, set screw, ball from setting liner, rest is sand. MU Protechnics Spectrascan logging tools. HU depth de-coder. MU to wellhead.
	18:22 - 0:00	5.63	FRAC	41	D	P		RIH w/ Protechnics Spectrascan log.
7/26/2012	0:00 - 1:00	1.00	COMP	32	A	P		pooh w/spectrascan log
	1:00 - 1:30	0.50	COMP	32	A	P		ooh with log and tools secure well and location,make sure log will download info,start rig down for ctu
	1:30 - 3:30	2.00	COMP	32	A	P		rig down ctu total fluid pumped = 12,589 bbls,start mob from location with equipment to town
	3:30 - 7:00	3.50	RUNTBG	33	A	P		Flow well to tanks to clean-up.

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ			Spud Date: 5/24/2012
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 12:30	5.50	RUNTBG	47	A	P		Safety meeting. MIRU Gudac workover rig. ND Cameron frac stack. NU BOP's. MIRU Great White snubbing unit. Test BOP's and annular 5000 psi hi/ 250 psi low on pipe and blinds. Test annular 1500 psi. Open well to flowback on 20 choke. 140 psi on well.
	12:30 - 18:00	5.50	RUNTBG	43	B	P		Open well. Snub in well w/ notched collar, 2 7/8" magnum double disc., one jt 2 7/8" J-55 tubing, seating nipple and 130 jts new 2 7/8" tubing to surface. Land tubing 4158.4' w/ 19' kb. Lock down hanger.
	18:00 - 19:30	1.50	RUNTBG	47	A	P		RDMO Great White snubbing unit. Secure well with lower master valve. Flow casing to flowback tanks on 20 choke, 1/2 bpm @ 95 psi. Pick up tools. SD workover activites for night.
	19:30 - 0:00	4.50	FLOWBK	33	A	P		Flowing well to tanks to clean-up.
7/27/2012	0:00 - 7:00	7.00	FLOWBK	33	A	P		Flow casing to tanks to clean-up.
	7:00 - 10:00	3.00	FLOWBK	30	C	P		RDMOL Dubak Brothers workover rig. RD BOP's. ND bottom frac valve. Cameron hang and NU production tree. Torque to spec. Test hanger to 10K, hold for 15 minutes. Good test. Haul off frac stack. Pure Energy tie into tubing side of production tree. JD Services fill 2 7/8" tubing with fluid.
	10:00 - 11:00	1.00	FLOWBK	35	E	P		RIH w/ double broach to check tubing. POOH. MU chisel, RIH and rupture magnum double discs. POOH w/ slickline and chisel. RDMO Delsco slickline.
	11:00 - 0:00	13.00	FLOWBK	33	A	P		Shut in casing and flow tubing 1106 hrs.
7/28/2012	0:00 - 0:00	24.00	FLOWBK	33	A	P		Flow well to tanks to clelan-up. Well loading up and unloading strongly once casing is 600 pis. Dialed choke back in to regulate and see if flow will remain constant.
7/29/2012	0:00 - 0:00	24.00	FLOWBK	33	A	P		Flow well to tanks to clean-up.
7/30/2012	0:00 - 10:00	10.00	FLOWBK	33	A	P		Well open to tanks but not flowing. Tubing dead with 675 psi on casing.
	10:00 - 12:00	2.00	FLOWBK	33	D	P		MI hot oiler and pump 25 bbls mixed with one drum of paraffin cutter down tubing. Finished pumping 130 psi/ 2 bpm. Watched tubing psi for 5 minutes. 68 psi. Opened to flowback and psi went to 8 psi and .25 bpm returns.
	12:00 - 17:05	5.08	FLOWBK	33	A	P		Returns fluctuating. Increased to 40 bph/ 30 psi on tubing and slowly tapering off. 1700 hrs 15 psi on tubing/ 20 bph.
	17:05 - 19:40	2.58	FLOWBK	33	A	P		Well unloading, tubing to 490 psi. Dial choke in from 64/64 to 24/64. Well loaded back up.
	19:40 - 0:00	4.33	FLOWBK	33	A	P		Choke on 64/64, well lloaded up- not flowing. Casing psi building.
7/31/2012	0:00 - 12:00	12.00	FLOWBK	33	A	P		Well open to tanks on 64/64 choke.
	12:00 - 14:00	2.00	FLOWBK	42	B	P		MIRU Delsco swabbing unit. Change connections from 2 3/8" to 2 7/8". RIH and stack out 50' from surface. POOH. Cup and weight bars covered in thick oil. Remove swab cup. RIH w/ weight and work through oil 20'. Hoped to work through oil and break loose. No luck. POOH.

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:00 - 15:30	1.50	FLOWBK	31	F	P		MIRU Alder Hot oiler. Safety meeting. Pump 30 bbls, 210 degree water with chemical down tubing. Max psi 95 psi @ 2.8 bpm. SD. Close swab valve and open to tanks. Well flowing with 2 psi on tubing.
	15:30 - 16:30	1.00	FLOWBK	42	B	P		RIH w/ swab to 1300'. Fluid @ 800'. Make four swab runs from 1300'. Fourth run well began flowing, 12 psi on tubing. Release hot oiler and rig down swabbing unit off wellhead.
	16:30 - 20:00	3.50	FLOWBK	33	A	P		Well flowing with 12 psi on tubing to tanks with wide open choke. Flow tapered off and well loaded up.
	20:00 - 0:00	4.00	FLOWBK	33	G	P		Well loaded up, not flowing. Monitor rest of night on wide open choke.
8/1/2012	0:00 - 7:00	7.00	FLOWBK	33	A	P		Well open to tanks, loaded up- not flowing.
	7:00 - 12:30	5.50	FLOWBK	42	B	P		RIH w/ Delsco swabbing line. Pull from 1500' x2, 2000'x2, 2500'x2, 3000'x2. 96 bbls returned during swabbing. 8th run from 3000' well began flowing.
	12:30 - 0:00	11.50	FLOWBK	33		P		TimeTubingCasing 1230150626 1250700631 1254580628 1257685648 1303693654 1305820638 1310660636 1315526628 1320501632 1325360634 1330498628 1340510658 1345423664 1355540668 1400460695 1405550675 1410529695 1415390710 1425406723 1430575703 1435402736 1440612711 1445440762 1450620725 1455450770 1500515789 1510530794 1515670755 1525422790 1530646767 1720443844 1805673849 1900472924 2200646921 2100668989 Brad Laney shot two fluidsfrom 1400-1500 hrs. Both were 1330' down from surface. Surface line temperature from 118-122 degrees F.

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ			Spud Date: 5/24/2012
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No:
Event: COMPLETION	Start Date: 6/28/2012		End Date:
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/2/2012	0:00 - 13:20	13.33	FLOWBK	33	A	P		Flowing well to tanks to clean-up.
	13:20 - 0:00	10.67	FLOWBK	33	A	P		Well flowing on 64/64 choke. Fluid level @ 4100'. Flow well through Pure separator. Establish levels. 1320 hrs send oil and gas to production facilites
8/3/2012	-							
	0:00 - 12:45	12.75	FLOWBK	33	A	P		Well flowing to production through Pure separator.
	12:45 - 13:15	0.50	FLOWBK	47	A	P		SIW to tie in fabricated 2" iron w/ hand choke and install.
	13:15 - 0:00	10.75	FLOWBK	33	1	P		Crew out, fab 2" iron and choke off production tree. SIW for 30 minutes, tie in iron to tubing directly to heater treater. Clean up Pure iron with heated water. Begin RD Pure flowback equipment. Team Oilfield on-site to take over flowback duties.
8/4/2012	0:00 - 0:00	24.00	FLOWBK	33	A	P		Team Oilfield monitoring production. Pure Energy racking out equipment. Truck equipment back to Grand Junction 8-5-12.
8/5/2012	0:00 - 0:00	24.00	FLOWBK	33	A	P		Well flowing to production. Team Oilfield monitoring well. Dawn Trucking haul Pure Energy equipment back to Grand Junction
8/6/2012	0:00 - 11:00	11.00	FLOWBK	33	A	P		Well flowing to production facilities.
	11:00 - 13:30	2.50	FLOWBK	33	A	P		MIRU Adler hot oil services. Begin heating open top flowback tanks. Release JD services forklift. Release all light plants. Chipeta compression down. Well shut in. Open well back up @ 1330 hrs. 1040 psi on tubing. Protechnics surveyed tanks and location. All readings clean.
	13:30 - 23:00	9.50	FLOWBK	47	C	P		Heat oil in flow-back tanks. Skim and transfer 400 bbls oil to production tank. Drain remaining water to production pit. FINAL REPORT CMP.
	23:00 - 0:00	1.00	FLOWBK	33	A	P		Well flowing to production facilities. Team Oilfield to continue monitoring facilities and well for production.
8/7/2012	-							

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No: PIONEER 54/54, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/14/2012		End Date: 6/27/2012
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/24/2012	9:00 - 15:30	6.50	MIRU	01	A	P		MOVE RIG 4.5 MILES & RIG UP /// 7 HOWCROFT TRUCKS /// 7 HOWCROFT PERSONEL /// 5 STALLION PERSONEL /// 5 CAPSTAR PERSONEL /// 1 FORKLIFT
	15:30 - 19:30	4.00	PRPSPD	14	A	P		WELD ON CONDUCTOR & RIG UP FLOW LINE
	19:30 - 20:00	0.50	PRPSPD	06	A	P		PU 12.25" BIT & 8" MUD MOTOR
	20:00 - 22:00	2.00	DRLSUR	02	B	P		DRILL 12.25" SURFACE HOLE F/ 49'- 210' ROP= 161' @ 107 FPH WOB= 14/22K RPM= 55/105 SPP=800/500 GPM= 595 TRQ= 2600/1900 PU/SO/ROT = 49/46/47 NO LOSSES HOLE IN GOOD SHAPE
	22:00 - 23:30	1.50	DRLSUR	06	A	P		TOOH & PU DIR TOOLS, SCRIBE , & TIH
	23:30 - 0:00	0.50	DRLSUR	02	D	P		DRILL 12.25" SURFACE HOLE F/ 210'-312 ROP= 102' @ 200' FPH WOB= 14/22K RPM= 55/105 SPP=900/700 GPM= 595 TRQ= 2600/1900 PU/SO/ROT = 49/46/47 NO LOSSES HOLE IN GOOD SHAPE
5/25/2012	0:00 - 10:30	10.50	DRLSUR	02	D	P		DRILL 12.25" SURFACE HOLE F/ 312'-1475' ROP= 1163' @ 111 FPH WOB= 24/28K RPM= 55/105 SPP=1100/800 GPM= 595 TRQ= 2800/2400 PU/SO/ROT = 92/60/76 NO LOSSES HOLE IN GOOD SHAPE
	10:30 - 11:00	0.50	DRLSUR	07	A	P		SERVICE RIG & EQUIPMENT
	11:00 - 0:00	13.00	DRLSUR	02	D	P		DRILL 12.25" SURFACE HOLE F/ 1475'-2476' ROP= 1001' @ 77 FPH WOB= 24/28K RPM= 55/105 SPP=1200/850 GPM= 595 TRQ= 2800/2400 PU/SO/ROT = 111/76/97 NO LOSSES HOLE IN GOOD SHAPE

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No: PIONEER 54/54, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/14/2012		End Date: 6/27/2012
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/26/2012	0:00 - 0:30	0.50	DRLSUR	02	D	P		DRILL 12.25" SURFACE HOLE F/ 2476'-2530 ROP= 54' @ 108 FPH WOB= 24/28K RPM= 55/105 SPP=1200/850 GPM= 595 TRQ= 2800/2400 PU/SO/ROT = 111/76/97 NO LOSSES HOLE IN GOOD SHAPE FINAL POSITION= 2.5' SOUTH & 1.5' WEST OF LINE 81% ROTATE & 19% SLIDE
	0:30 - 1:00	0.50	DRLSUR	05	A	P		CIRC & COND. HOLE FOR 9.625" CSG
	1:00 - 4:00	3.00	DRLSUR	06	A	P		LAY DOWN DRILL STRING & DIR TOOLS
	4:00 - 9:00	5.00	CSGSUR	12	C	P		PJSM /// RUN 58 JT'S, 9.625", 36#, J-55, LT&C CSG /// SHOE SET @ 2505' & BAFFLE @ 2460'
	9:00 - 9:30	0.50	CSGSUR	05	F	P		CIRC 9.625" CSG @ 2505'
	9:30 - 11:00	1.50	CSGSUR	12	E	P		PJSM WITH PRO PETRO CMT CREW /// PUMP 40 BBLS WATER AHEAD FOLLOWED BY 20 BBL GEL WATER FLUSH /// LEAD = 230sx CLASS G CMT @ 11.0 WT & 3.82 YIELD /// TAIL = 200sx CLASS G CMT @ 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 190 BBL'S WATER /// PLUG DN @ 10:45 5/26/2012 /// BUMP PLUG W/ 900 PSI /// FINAL LIFT = 600 PSI /// CHECK FLOATS - HELD W/ 1 BBL BACK /// FULL RETURNS THRU OUT JOB 20 BBL'S CMT TO SURFACE /// CMT FELL BACK
	11:00 - 12:00	1.00	CSGSUR	14	A	P		CUT OFF COND. & HANG SURFACE CSG
	12:00 - 14:00	2.00	CSGSUR	12	E	P		RUN 200' OF 1" PIPE DN BACK SIDE & TOP OUT W/ 150 sx CLASS G CMT @ 15.8 WT & 1.15 YIELD /// CMT TO SURFACE BUT FELL BACK /// WAIT 1 HOUR & TOP OUT AGAIN W/ 50 sx CMT /// CMT TO SURFACE & STAYED THIS TIME /// RELEASE RIG @ 14:00 05/26/2012 TO THE MORGAN STATE 921-36D4CS
6/12/2012	18:00 - 0:00	6.00	DRLPRO	01	E	P		RIGGING DOWN TOP DRIVE, SERVICE LOOP, RIG FLOOR, BACK YARD
6/13/2012	0:00 - 6:00	6.00	DRLPRO	01	E	P		RIG DOWN FUEL, AIR, WATER, POWER AND PREPARING FOR RIG MOVE
	6:00 - 18:00	12.00	DRLPRO	01	A	P		RIG MOBILIZATION, 15 MILES WITH WESTROC TRUCKING AND JC CRANE, TRUCKS ON LOCATION @0700, 7 BED TRUCKS, 9 HUAL TRUCKS, 2 FORKLIFTS, 4 SWAMPERS, 2 PUSHERS, 1 CRANE OPERATOR, DERRICK RAISED @1800, TRUCKS RELEASED@1800
	18:00 - 23:00	5.00	DRLPRO	01	B	P		BRIDLE DOWN, RIG UP TOP DRIVE, TORQUE TUBE, SERVICE LOOP, RIG FLOOR
	23:00 - 0:00	1.00	DRLPRO	14	A	P		NIPPLE UP BOP, ORBIT VALVE, CHOKE LINE
6/14/2012	0:00 - 2:00	2.00	DRLPRL	14	A	P		NIPPLE UP BOPE, ORBIT VALVE, CHOKE LINE
	2:00 - 6:00	4.00	DRLPRL	15	A	P		TEST RAMS & ALL VALVES, 250 LOW - 5000 HIGH, ANN 2500, SURFACE CASING TO 1500 FOR 30 MIN'S
	6:00 - 6:30	0.50	DRLPRL	14	B	P		INSTALL WEAR BUSHING

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No: PIONEER 54/54, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/14/2012		End Date: 6/27/2012
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 7:30	1.00	DRLPRL	09	A	P		CUT & SLIP DRILL LINE
	7:30 - 11:00	3.50	DRLPRL	06	A	P		LAYOUT & STRAP 66 5" HWDP, 30 4.5" HWDP, ADD & COMFIRM TOTAL
	11:00 - 16:30	5.50	DRLPRL	06	A	P		PICKUP BIT #1 MOTOR, DIR TOOLS & SCRIBE, 30 HWDP, 48 JTS 4.5" DRILL PIPE, INSTALL ROTATING RUBBER
	16:30 - 18:00	1.50	DRLPRL	06	J	P		PULL OUT OF HOLE TO PICKUP 5" HWDP
	18:00 - 21:00	3.00	DRLPRL	06	A	P		PICKUP 5" HWDP, TIH TO TOP OF CEMENT @ 2420'
	21:00 - 22:30	1.50	DRLPRL	02	F	P		DRILLING SHOE TRACK, FLOAT@2460', BAFFLE@2505', NEW HOLE@2540'
	22:30 - 0:00	1.50	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/2540' - 2730', 190'@126.6' PH WOB / 19-22 RPM TOP DRIVE 50- 60, MOTOR-135 SPM 200 GPM 586 MW 8.5 VIS 26 TRQ ON/OFF = 6/8 K PSI ON /OFF 1600/1900 , DIFF 100-500 PU/SO/RT = 165/140/158 K LOST 30 BBLS TO FORMATION SLIDE = ROT = 100% NOV- ON LINE 2- CONVENTIONAL 1.3' ABOVE AND 1.1' LEFT OF PROPOSED TARGET LINE 0 DRILL FLARE, 0 CONN FLARE
6/15/2012	0:00 - 11:00	11.00	DRLPRO	02	D	P		CLOSED LOOP SYSTEM DRILL F/2730' - 4255', 1525'@138.6' PH WOB / 19-23 RPM TOP DRIVE 50- 60, MOTOR-135 SPM 200 GPM 586 MW 8.5 VIS 28 TRQ ON/OFF = 6/8 K PSI ON /OFF 1600/1900 , DIFF 100-500 PU/SO/RT = 165/140/158 K LOST 80 BBLS TO FORMATION SLIDE = 130' IN 1.92 HRS @67.7' PH ROT = 1395' IN 9.08 HRS@ 126.8' PH NOV- ON LINE 2- DEWTERING WITHIN 2' OF BEGINNING CURVE 0 DRILL FLARE, 0 CONN FLARE
	11:00 - 12:00	1.00	DRLPRO	05	F	P		CIRCULATE 2 BOTTOMS UP WITH HIGH VIS SWEEP
	12:00 - 17:30	5.50	DRLPRO	06	A	P		TRIP OUT OF HOLE TO PICK UP 2.25 DEG MOTOR AND ROCK BIT
	17:30 - 20:00	2.50	DRLPRO	06	A	P		TRIP IN THE HOLE

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No: PIONEER 54/54, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/14/2012		End Date: 6/27/2012
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	20:00 - 0:00	4.00	DRLPRO	02	D	P		CLOSED LOOP SYSTEM DRILL F/4255' - 4345', 90'@22.5' PH WOB / 16-20 RPM TOP DRIVE 30 SPM 200 GPM 586 MW 8.5 VIS 28 TRQ ON/OFF = 2/5 K PSI ON /OFF 1400/1600 , DIFF 100-250 PU/SO/RT = 185/150/157 K LOST 80 BBLS TO FORMATION SLIDE = 63' IN 1.67 HRS @37.7' PH ROT = 27' IN 2.33 HRS@11.5' PH NOV- ON LINE 2- DEWATERING 5.5' ABOVE AND 4' RIGHT OF PROPOSED CURVE 0 DRILL FLARE, 0 CONN FLARE
6/16/2012	0:00 - 16:30	16.50	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/4255' - 4868', 613'@37.1' PH WOB / 25-45 RPM TOP DRIVE 30 SPM 200 GPM 586 MW 8.5 VIS 28 TRQ ON/OFF = 0/7 K PSI ON /OFF 1700/1800 , DIFF 100-350 PU/SO/RT = 185/150/157 K LOST 80 BBLS TO FORMATION SLIDE = 317' IN 8.00 HRS@39.5' PH ROT = 296' IN 8.50 HRS@34.8' PH NOV- ON LINE 2- DEWATERING 7' ABOVE AND 7' RIGHT OF PROPOSED CURVE 0 DRILL FLARE, 0 CONN FLARE
	16:30 - 17:00	0.50	DRLPRL	07	A	P		RIG SERVICE
	17:00 - 0:00	7.00	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/4868' - 5040',172'@24.6' PH WOB / 25-45 RPM TOP DRIVE 30 SPM 200 GPM 586 MW 8.5 VIS 28 TRQ ON/OFF = 0/7 K PSI ON /OFF 1700/1800 , DIFF 100-350 PU/SO/RT = 200/150/165 K LOST 80 BBLS TO FORMATION SLIDE = 147' IN 5.67 HRS@25.9' PH ROT = 25' IN 1.33 HRS@18.8' PH NOV- ON LINE 2- DEWATERING 17' BELOW AND 5' RIGHT OF PROPOSED CURVE 0 DRILL FLARE, 0 CONN FLARE

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No: PIONEER 54/54, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/14/2012		End Date: 6/27/2012
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/17/2012	0:00 - 5:30	5.50	DRLPRO	02	D	P		CLOSED LOOP SYSTEM DRILL F/5040' - 5190',150'@27.2' PH WOB / 25-45 RPM TOP DRIVE 30 SPM 200 GPM 586 MW 8.5 VIS 28 TRQ ON/OFF = 0/7 K PSI ON /OFF 1700/1800 , DIFF 100-350 PU/SO/RT = 200/150/165 K LOST 80 BBLS TO FORMATION SLIDE = 92' IH 2.5 HRS@36.8' PH ROT = 58' IN 3 HRS@ 19.3' PH NOV- ON LINE 2- DEWATERING 0.08' HIGH AND 5' RIGHT OF PROPOSED CURVE 0 DRILL FLARE, 0 CONN FLARE
	5:30 - 7:30	2.00	DRLPRO	05	B	P		BRING MUD WEIGHT UP TO 10.1 PPG, CIRCULATE BOTTOMS UP
	7:30 - 9:00	1.50	DRLPRO	06	E	P		WIPER TRIP TO KOP (4255')
	9:00 - 10:30	1.50	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP
	10:30 - 17:00	6.50	DRLPRO	06	A	P		LAYING DOWN DRILL PIPE, 4.5" AND 5" HWDP, DIRECTIONAL TOOLS, MUD MOTOR, BIT
	17:00 - 20:00	3.00	DRLPRO	12	A	P		RIG UP TESCO CASING CREW
	20:00 - 22:00	2.00	DRLPRO	12	C	P		RUN REAMER SHOE, FLOAT, 10 JOINTS OF CASING
	22:00 - 0:00	2.00	DRLPRO	22	L	Z		TORQUE TURN TONGS INOP, WAITING FOR WELDER TO MODIFY ROTATIONAL INHIBITOR BAR
6/18/2012	0:00 - 5:00	5.00	DRLPRO	22	L	Z		MODIFY ROTATIONAL INHIBITOR BAR
	5:00 - 12:30	7.50	DRLPRO	12	C	P		RUNNING 7" CASING TO KICK OFF POINT
	12:30 - 14:00	1.50	DRLPRO	05	D	P		CIRCULATE TWO BOTTOMS UP
	14:00 - 16:30	2.50	DRLPRO	12	C	P		RUN 119 JTS OF 7", P 110, DQX CASING, LAND CASING, SHOE @ 5178.90', FLOAT @ 5089.16', RIG DOWN
	16:30 - 19:30	3.00	DRLPRO	05	D	P		RIGGING DOWN TESCO, CIRCULATING BOTTOMS UP PRIOR TO CEMENT, RIGGING UP CEMENT CREW
	19:30 - 22:00	2.50	DRLPRO	12	E	P		HELD SAFETY MEETING, PSI TEST LINES TO 3700, PUMP 10 BBL WATER SPACER FOLLOWED BY 25 BBL OF SEALBOND SPACER, LEAD 350 SACKS 12.5 PPG 2.03 YLD, TAIL 195 SACKS 14.3 PPG 1.26 YLD, DISPLACE WITH 194.8 BBLS OF DRILLING MUD, BUMP PLUG WITH 2437 PSI OVER FINAL OF 1289 PSI AND HELD FOR 5 MIN, FLOATS CHECKED AND HELD, 10 BBLS CEMENT BACK TO SURFACE, FULL RETURNS THROUGHOUT JOB
	22:00 - 0:00	2.00	DRLPRO	13	A	P		WAITING ON CEMENT, RIG DOWN CEMENT CREW, CHANGING OUT RAMS ON BOPE
6/19/2012	0:00 - 1:00	1.00	DRLPRC	14	B	P		CHANGE OUT PIPE RAMS TO 4"
	1:00 - 2:00	1.00	DRLPRC	08	C	P		CHANGE OUT SAVER SUB & PIPE HANDLER DIES
	2:00 - 4:00	2.00	DRLPRC	15	A	P		TEST PIPE RAMS 250 LOW, 5000 HIGH, INTERMEDIATE CASING TO 4500 PSI
	4:00 - 7:00	3.00	DRLPRC	06	A	P		LAYOUT, STRAP & CORRELATE NUMBERS
	7:00 - 12:00	5.00	DRLPRC	06	A	P		HELD SAFEY MEETING, R/U P/U TRUCK, P/U DRIL TOO;S & SCRIBE, DRILL PIPE & HWDP TO 5035' TOP OF CEMENT

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ			Spud Date: 5/24/2012
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No: PIONEER 54/54, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/14/2012		End Date: 6/27/2012
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 14:30	2.50	DRLPRC	02	F	P		DRILL CEMENT, F/E & OPEN HOLE TO 5190', SHOE @ 5035', FLOAT @ 5077'
	14:30 - 17:00	2.50	DRLPRC	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 5190'- 5332', 142'@56.8' PH WOB / 10-25 RPM TOP DRIVE 70 SPM 85 GPM MW 8.4 VIS 35 TRQ ON/OFF = 0/7 K PSI ON /OFF 1700/1800 , DIFF 100-350 PU/SO/RT = 125/97/105 K LOST - BBLS TO FORMATION SLIDE = 13' IH .76 HRS@17' PH ROT = 129' IN 1.74 HRS@74.1' PH NOV- ON LINE 2- DEWATERING 1' BELOW AND 4' LEFT OF PROPOSED LINE 0 DRILL FLARE, 0 CONN FLARE
	17:00 - 17:30	0.50	DRLPRC	07	A	P		RIG SERVICE
	17:30 - 0:00	6.50	DRLPRC	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 5332'- 5699',367'@56.4' PH WOB / 10-25 RPM TOP DRIVE 70 SPM 85 GPM MW 8.4 VIS 35 TRQ ON/OFF = 0/7 K PSI ON /OFF 1700/1800 , DIFF 100-350 PU/SO/RT = 105/85/96 K LOST - BBLS TO FORMATION SLIDE = 61' IH 1.84 HRS@34.1' PH ROT = 306' IN 4.66 HRS@65.7' PH NOV- ON LINE 2- DEWATERING 1' BELOW AND 4' LEFT OF PROPOSED LINE 0 DRILL FLARE, 0 CONN FLARE
6/20/2012	0:00 - 16:30	16.50	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 5699' - 6893', 1194'@72' PH WOB / 10-25 RPM TOP DRIVE 70 SPM 85 GPM MW 8.4 VIS 35 TRQ ON/OFF = 0/7 K PSI ON /OFF 1700/1800 , DIFF 100-350 PU/SO/RT = 105/85/96 K LOST 40 BBLS TO FORMATION SLIDE = 92' IH 2.86 HRS@32' PH ROT = 1102' IN 13.64 HRS@80.8' PH NOV- ON LINE 2- CONVENTIONAL 1' BELOW AND 4' LEFT OF PROPOSED LINE 0 DRILL FLARE, 0 CONN FLARE
	16:30 - 17:00	0.50	DRLPRL	07	A	P		RIG SERVICE

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No: PIONEER 54/54, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/14/2012		End Date: 6/27/2012
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	17:00 - 0:00	7.00	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 6893' - 7077', 184'@26' PH WOB / 10-40 RPM TOP DRIVE 70 SPM 85 GPM 249 MW 8.5 PPG 37 VIS TRQ ON/OFF = 9000/4000 PSI ON /OFF 1200/1000 , DIFF 100-350 PU/SO/RT = 135/85/115 K LOST 10 BBLS TO FORMATION SLIDE = 23' IN 1.89 HRS@12' PH ROT = 161' IN 5.11 HRS@31.5' PH NOV- ON LINE 2- CONVENTIONAL 0.4' BELOW AND 3.5' RIGHT OF PROPOSED LINE 0 DRILL FLARE, 0 CONN FLARE
6/21/2012	0:00 - 1:00	1.00	DRLPRL	05	F	S		DUE TO LOW PR, PUMPED A 10.1 PPG WEIGHTED MUD SWEEP TO CLEAN HOLE. CONDUCTED DRILL OFF TEST TO FIND IDEAL DIFFERENTIAL DRILLING PRESSURE OF 350 PSI RESULTING IN 30-35 WOB
	1:00 - 7:30	6.50	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 7077' - 7265' ,188'@28.9' PH WOB / 15-35 RPM TOP DRIVE 70 SPM 85 GPM 249 MW 8.6 PPG 37 VIS TRQ ON/OFF = 9500/7500 PSI ON /OFF 1350/1200, DIFF 200-350 PU/SO/RT = 136/83/116 K LOST 60 BBLS TO FORMATION SLIDE = 21' IN 1.58 HRS@ 13.2' PH ROT = 167' IN 4.92 HRS@33.9' PH NOV- ON LINE 2- CONVENTIONAL 0.4' BELOW AND 3.5' RIGHT OF PROPOSED LINE 0 DRILL FLARE, 0 CONN FLARE
	7:30 - 8:30	1.00	DRLPRL	05	C	P		PUMPED 10.1 PPG WEIGHTED MUD SWEEP PRIOR TO TRIPPING OUT FOR NEW BHA, CIRCULATED SURFACE TO SURFACE
	8:30 - 15:00	6.50	DRLPRL	06	A	P		TRIPPING OUT OF HOLE, TIGHT HOLE @ 6550' (30K OVER), 6438' (5K OVER), 6278' (10K OVER), 6250' (10K OVER), 5600' (20K OVER), 5560' (10K OVER), WHEN EVER TIGHT HOLE ENCOUNTERED RIH TWO STANDS, CIRCULATED AND PUMPED OUT THROUGH TIGHT SPOT.
	15:00 - 19:00	4.00	DRLPRL	06	A	P		CHANGED OUT BIT AND MUD MOTOR, REORIENTATE DIRECTIONAL TOOLS, TRIPPED IN HOLE, HOLE BEGAN TO BECOME STICKY AFTER 6700' WASH AND REAMED TO BOTTOM FROM 6815' TO 7265'

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No: PIONEER 54/54, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/14/2012		End Date: 6/27/2012
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	19:00 - 0:00	5.00	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 7265' - 7523', 258'@51.6' PH WOB / 5 - 16 RPM TOP DRIVE 70 SPM 85 GPM 249 MW 8.6 PPG 37 VIS TRQ ON/OFF = 7500/6500 PSI ON /OFF 1450/1250, DIFF 200-350 PU/SO/RT = 145/98/125 K LOST 30 BBLS TO FORMATION SLIDE = 10' IN .92 HRS@ 10.9' PH ROT = 248' IN 4.08 HRS@ 60.8' PH NOV- ON LINE 2- CONVENTIONAL 0.78' ABOVE AND 2.5' RIGHT OF PROPOSED LINE 0 DRILL FLARE, 0 CONN FLARE
6/22/2012	0:00 - 13:30	13.50	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 7523' - 8169', 646'@47.8'PH WOB / 7 - 16 RPM TOP DRIVE 70 SPM 85 GPM 249 MW 8.6 PPG 37 VIS TRQ ON/OFF = 7700/6500 PSI ON /OFF 1550/1250, DIFF 200-350 PU/SO/RT = 155/95/132 K LOST 20 BBLS TO FORMATION SLIDE = 110' IN 7.67 HRS@15.3' PH ROT = 536' IN 5.83 HRS@91.9' PH NOV- ON LINE 2- CONVENTIONAL 0.78' ABOVE AND 2.5' RIGHT OF PROPOSED LINE 0 DRILL FLARE, 0 CONN FLARE
	13:30 - 14:00	0.50	DRLPRL	07	A	P		RIG SERVICE, GREASE CROWN AND BLOCKS
	14:00 - 0:00	10.00	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 8169' - 8748',579'@57.9'PH WOB / 7 - 16 RPM TOP DRIVE 70 SPM 85 GPM 249 MW 8.6 PPG 37 VIS TRQ ON/OFF = 7700/6500 PSI ON /OFF 1550/1250, DIFF 200-350 PU/SO/RT = 157/96/125 K LOST 20 BBLS TO FORMATION SLIDE = 167' IN 3 HRS@55.6' PH ROT = 412' OH 7 HRS@58.8' PH NOV- ON LINE 2- CONVENTIONAL 7' BELOW AND 0.6' RIGHT OF PROPOSED TARGET LINE 0 DRILL FLARE, 0 CONN FLARE

US ROCKIES REGION

Operation Summary Report

Well: MAVERICK 921-27D-HZ		Spud Date: 5/24/2012	
Project: UTAH-UINTAH	Site: MAVERICK 921-27D-HZ		Rig Name No: PIONEER 54/54, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/14/2012		End Date: 6/27/2012
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/23/2012	0:00 - 1:30	1.50	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 8748' - 8834',86'@57.3'PH WOB / 7 - 16 RPM TOP DRIVE 70 SPM 85 GPM 249 MW 8.8 PPG 38 VIS TRQ ON/OFF = 7700/6500 PSI ON /OFF 1550/1250, DIFF 200-350 PU/SO/RT = 157/96/125 K LOST 0 BBLS TO FORMATION SLIDE = 8' IN .58 HRS = 13.7' PH ROT = 78' IN .92 HRS = 84.7' PH NOV- ON LINE 2- CONVENTIONAL 7' BELOW AND 0.6' RIGHT OF PROPOSED TARGET LINE 0 DRILL FLARE, 0 CONN FLARE
	1:30 - 3:00	1.50	DRLPRL	05	F	S		CIRCULALTE SURFACE TO SURFACE TO REDUCE DRAG AND TORQUE. 70 RPM'S WITH 249 GPM. PUMPED A 10.1 PPG WEIGHTED SWEEP
	3:00 - 14:00	11.00	DRLPRL	02	D	P		CLOSED LOOP SYSTEM DRILL F/ 8834' - 9403',569'@51.7'PH WOB / 7 - 16 RPM TOP DRIVE 70 SPM 85 GPM 249 MW 8.8 PPG 38 VIS TRQ ON/OFF = 7700/6500 PSI ON /OFF 1550/1250, DIFF 200-350 PU/SO/RT = 157/96/125 K LOST BBLS TO FORMATION SLIDE = 153' IN 4.25 HRS = 36' PH ROT = 416' IN 6.75 HRS = 61.6' PH NOV- ON LINE 2- CONVENTIONAL 1.2' ABOVE AND 22' LEFT OF PROPOSED TARGET LINE 0 DRILL FLARE, 0 CONN FLARE
	14:00 - 17:00	3.00	DRLPRL	22	H	X		STUCK AT THE BIT DURING BACK REAMING LAST CONNECTION. WORKED THROUGH IT AND REGAINED CIRCULATION
	17:00 - 19:00	2.00	DRLPRL	05	B	P		CIRC & COND HOLE, RAISE MUD WT TO 9.2 PPG
	19:00 - 0:00	5.00	DRLPRL	06	E	P		SHORT TRIP TO SHOE, TIGHT @ 9350, 9000, 7500 BACK REAM OUT, TIGHT @ 6400 IN REAM THOUGH, WASH & REAM LAST 400' TO BOTTOM PRE-CAUTIONARY
6/24/2012	0:00 - 7:30	7.50	DRLPRC	06	B	P		PULL OUT OF HOLE FOR LOGS, SLM = 9404.51, RABBIT PIPE, NO TIGHT SPOTS, LAY DOWN DIR TOOLS
	7:30 - 11:30	4.00	DRLPRC	11	D	P		HELD SAFETY MEETING, R/U & PICKUP LOGGING TOOLS, TEST TOOLS, RUN IN HOLE WITH LOGGING TOOL ON DRILL PIPE TO 4800'
	11:30 - 12:00	0.50	DRLPRC	05	C	P		CIRC OUT GAS & CLEAN HOLE, & LOGGING TOOL
	12:00 - 16:00	4.00	DRLPRC	11	D	P		PICKUP SIDE DOOR SUB, PULL TEST, CHECK COMMUNICATION, LOG IN HOLE @ 50' PER MIN, TRIPLE COMBO 14 STANDS, LOG OUT 14 STANDS @ 25' PER MIN

US ROCKIES REGION

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Event: DRILLING	Start Date: 5/14/2012	End Date: 6/27/2012
Active Datum: RKB @4,953.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/27/0/0/26/PM/N/384/W/0/252/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00 - 18:00	2.00	DRLPRC	11	D	P		BREAK OFF SINGLE, PULL SIDE DOOR SUB & HEAD, TRIP IN HOLE 10 STANDS
	18:00 - 18:30	0.50	DRLPRC	05	C	P		CIRC OUT GAS CLEAN HOLE & TOOL
	18:30 - 20:30	2.00	DRLPRC	11	D	P		REINSTALL SIDE DOOR SUB & CIRC DOWN LOGGING HEAD, LATCH ON, PULL TEST & CHECK COMMUNICATION
	20:30 - 20:30	0.00	DRLPRC	11	D	P		LOG IN HOLE WITH DRILL PIPE @ 50' PER MIN, TRIPLE COMBO, OUT @ 25' PER MIN TO 9357'
6/25/2012	0:00 - 3:00	3.00	DRLPRC	11	D	P		PULL OUT OF HOLE LOGGING WITH DRILL PIPE
	3:00 - 4:30	1.50	DRLPRC	11	D	P		LAY DOWN WINDOW SUB & LOGGING CABLE HEAD
	4:30 - 8:00	3.50	DRLPRC	06	B	P		PULL OUT OF HOLE WITH LOGGING TOOLS & LAY DOWN SAME
	8:00 - 10:30	2.50	DRLPRC	06	E	P		PICKUP BIT, BIT SUB, 1 JT DRILL PIPE, X/O, REAMER, X/O, TRIP IN HOLE WITH DRILL PIPE & HWDP
	10:30 - 11:00	0.50	DRLPRC	09	A	P		SLIP ON 115' DRILL LINE
	11:00 - 13:00	2.00	DRLPRC	06	E	P		TRIP IN HOLE WITH REAMER TO 8600'
	13:00 - 14:30	1.50	DRLPRC	03	D	P		WASH & REAM FROM 8600 TO 9403', HOLE STARTING TO GET TIGHT
	14:30 - 15:30	1.00	DRLPRC	05	F	P		CIRC HOLE CLEAN
	15:30 - 17:30	2.00	DRLPRC	06	E	P		SHORT TRIP TO 7000'
	17:30 - 19:00	1.50	DRLPRC	05	C	P		CIRC & COND HOLE
	19:00 - 0:00	5.00	DRLPRC	06	D	P		TRIP OUT TO RUN 4.5" LINER, NO TIGHT SPOTS, LAY DOWN REAMER, BIT SUB & BIT
6/26/2012	0:00 - 11:30	11.50	CSGPRO	12	C	P		HELD SAFETY MEETING WITH RIG CREW, BJ, KIMZEY, TSI & ANADARKO COMPLETION GROUP, RIG UP & RUN 4.5" PROD LINER, RIG DOWN KIMZEY TONG & TORQUE TURN
	11:30 - 14:00	2.50	CSGPRO	12	C	P		TRIP IN HOLE WITH LINER WITH HWDP & DRILL PIPE TO 9388'
	14:00 - 16:30	2.50	CSGPRO	12	D	P		DISPLACE BOTTOM OF HOLE WITH 3% KCL WATER, DROP BALLS & SEAT, PSI TEST DRILL PIPE, WALK UP TO 3000 PSI, TEST BACK SIDE TO 3000 PSI BOTH FOR 15 MIN WITH 45 PSI DROP, PULL-PUSH TEST HANGER FOR PROPER SEAT, STING OUT OF HANGER & DISPLACE WELL BORE WITH KCL WATER
	16:30 - 0:00	7.50	CSGPRO	06	D	P		LAY DOWN DRILL PIPE & HWDP, HANGER TOOL ASSEMBLY, TRIP IN HOLE WITH PIPE OUT OF DERRICK & LAYDOWN
6/27/2012	0:00 - 2:00	2.00	DRLPRC	06	A	P		FINISH LAY DOWN DRILL PIPE
	2:00 - 6:00	4.00	DRLPRC	14	A	P		NIPPLE DOWN BOPE, CLEAN PITS, PREPARE RIG FOR MOVE, RELEASE RIG TO THE NBU 921-7L @ 06:00 2/27/12

Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
MAVERICK 921-27D-HZ
MAVERICK 921-27D-HZ

OH

Survey: Survey #2 SDI MWD PRODUCTION

Standard Survey Report

03 July, 2012

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Site MAVERICK 921-27D-HZ
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 4934 & KB 19 @ 4953.00ft (PIONEER 54)
Site:	MAVERICK 921-27D-HZ	**MD Reference:**	GL 4934 & KB 19 @ 4953.00ft (PIONEER 54)
Well:	MAVERICK 921-27D-HZ	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	MAVERICK 921-27D-HZ, SECTION 27 T9S R21E				
Site Position:		**Northing:**	14,534,216.93 usft	**Latitude:**	40.013318
From:	Lat/Long	**Easting:**	2,047,616.53 usft	**Longitude:**	-109.545763
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.94 °

Well	MAVERICK 921-27D-HZ, 384 FNL 252 FWL					
Well Position	**+N/-S**	0.00 ft	**Northing:**	14,534,216.93 usft	**Latitude:**	40.013318
	+E/-W	0.00 ft	**Easting:**	2,047,616.53 usft	**Longitude:**	-109.545763
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,934.00 ft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	09/21/11	11.06	65.86	52,303

Design	OH				
Audit Notes:					
Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00
Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**	
	0.00	0.00	0.00	181.13	

Survey Program **Date** 07/02/12

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
10.00	2,484.00	Survey #1 SDI MWD SURFACE (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1
2,581.00	9,403.00	Survey #2 SDI MWD PRODUCTION (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,484.00	0.79	182.19	2,481.86	-2.16	-41.61	2.98	0.00	0.00	0.00
2,581.00	0.77	175.02	2,578.85	-3.47	-41.58	4.29	0.10	-0.02	-7.39
FIRST SDI MWD PRODUCTION SURVEY									
2,671.00	1.05	171.96	2,668.84	-4.89	-41.41	5.71	0.32	0.31	-3.40
2,768.00	0.81	164.61	2,765.82	-6.43	-41.11	7.24	0.28	-0.25	-7.58
2,862.00	0.94	167.34	2,859.81	-7.83	-40.76	8.63	0.15	0.14	2.90
2,957.00	1.19	208.15	2,954.80	-9.46	-41.06	10.26	0.82	0.26	42.96
3,052.00	1.20	193.45	3,049.78	-11.29	-41.75	12.12	0.32	0.01	-15.47
3,147.00	0.71	180.97	3,144.76	-12.85	-42.00	13.68	0.56	-0.52	-13.14
3,241.00	0.79	191.06	3,238.76	-14.07	-42.13	14.90	0.16	0.09	10.73

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Site MAVERICK 921-27D-HZ
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Well:	MAVERICK 921-27D-HZ	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,336.00	0.71	247.39	3,333.75	-14.94	-42.80	15.78	0.75	-0.08	59.29
3,431.00	0.86	222.24	3,428.74	-15.69	-43.82	16.55	0.39	0.16	-26.47
3,525.00	1.01	195.97	3,522.73	-17.01	-44.52	17.89	0.48	0.16	-27.95
3,620.00	0.44	235.95	3,617.72	-18.02	-45.06	18.90	0.77	-0.60	42.08
3,715.00	0.71	216.93	3,712.72	-18.69	-45.71	19.59	0.34	0.28	-20.02
3,810.00	0.35	252.23	3,807.71	-19.25	-46.34	20.16	0.49	-0.38	37.16
3,905.00	0.56	208.25	3,902.71	-19.75	-46.84	20.67	0.41	0.22	-46.29
4,000.00	0.90	189.92	3,997.70	-20.89	-47.19	21.82	0.43	0.36	-19.29
4,095.00	0.55	190.45	4,092.69	-22.08	-47.40	23.01	0.37	-0.37	0.56
4,190.00	0.67	66.54	4,187.69	-22.31	-46.97	23.23	1.13	0.13	-130.43
4,283.00	3.04	158.55	4,280.65	-24.38	-45.57	25.28	3.37	2.55	98.94
4,317.00	6.67	176.12	4,314.52	-27.19	-45.11	28.08	11.42	10.68	51.68
4,348.00	10.22	182.59	4,345.18	-31.74	-45.11	32.62	11.84	11.45	20.87
4,380.00	13.44	184.34	4,376.50	-38.29	-45.52	39.18	10.12	10.06	5.47
4,412.00	16.54	184.16	4,407.40	-46.54	-46.13	47.44	9.69	9.69	-0.56
4,443.00	19.09	184.22	4,436.91	-56.00	-46.82	56.91	8.23	8.23	0.19
4,475.00	21.82	184.32	4,466.89	-67.15	-47.66	68.07	8.53	8.53	0.31
4,506.00	24.74	183.00	4,495.37	-79.37	-48.43	80.31	9.57	9.42	-4.26
4,538.00	27.62	180.75	4,524.08	-93.48	-48.88	94.43	9.52	9.00	-7.03
4,570.00	30.72	180.18	4,552.02	-109.08	-49.00	110.02	9.73	9.69	-1.78
4,602.00	33.80	180.51	4,579.08	-126.15	-49.11	127.10	9.64	9.63	1.03
4,633.00	36.82	180.78	4,604.37	-144.07	-49.31	145.01	9.75	9.74	0.87
4,665.00	39.23	182.10	4,629.58	-163.77	-49.81	164.72	7.95	7.53	4.13
4,697.00	41.80	183.15	4,653.90	-184.54	-50.77	185.50	8.31	8.03	3.28
4,728.00	44.89	183.04	4,676.44	-205.78	-51.92	206.76	9.97	9.97	-0.35
4,760.00	47.54	182.77	4,698.59	-228.85	-53.08	229.85	8.30	8.28	-0.84
4,792.00	49.97	181.94	4,719.68	-252.89	-54.07	253.91	7.84	7.59	-2.59
4,824.00	52.89	181.22	4,739.63	-277.90	-54.76	278.92	9.29	9.13	-2.25
4,855.00	55.72	181.70	4,757.72	-303.06	-55.40	304.09	9.22	9.13	1.55
4,887.00	59.11	181.75	4,774.95	-330.01	-56.21	331.05	10.59	10.59	0.16
4,919.00	63.47	181.52	4,790.32	-358.06	-57.01	359.11	13.64	13.63	-0.72
4,950.00	66.89	181.16	4,803.33	-386.18	-57.67	387.24	11.08	11.03	-1.16
4,982.00	71.19	180.68	4,814.77	-416.05	-58.15	417.12	13.51	13.44	-1.50
5,013.00	73.96	180.43	4,824.05	-445.62	-58.43	446.69	8.97	8.94	-0.81
5,045.00	77.53	180.15	4,831.93	-476.63	-58.59	477.70	11.19	11.16	-0.88
5,076.00	81.33	179.67	4,837.62	-507.10	-58.54	508.16	12.35	12.26	-1.55
5,108.00	85.02	178.81	4,841.42	-538.87	-58.12	539.91	11.84	11.53	-2.69
5,226.00	92.62	180.80	4,843.85	-656.75	-57.72	657.76	6.66	6.44	1.69
5,286.00	91.78	179.91	4,841.54	-716.70	-58.09	717.71	2.04	-1.40	-1.48
5,378.00	92.29	179.73	4,838.28	-808.64	-57.80	809.63	0.59	0.55	-0.20
5,470.00	93.77	178.92	4,833.41	-900.50	-56.72	901.45	1.83	1.61	-0.88
5,561.00	94.00	179.37	4,827.25	-991.29	-55.36	992.18	0.55	0.25	0.49
5,653.00	92.25	180.79	4,822.23	-1,083.14	-55.49	1,084.03	2.45	-1.90	1.54

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5,745.00	92.69	180.32	4,818.27	-1,175.05	-56.38	1,175.94	0.70	0.48	-0.51
5,836.00	91.89	180.33	4,814.63	-1,265.98	-56.90	1,266.85	0.88	-0.88	0.01
5,928.00	91.99	181.26	4,811.52	-1,357.91	-58.18	1,358.80	1.02	0.11	1.01
6,020.00	91.71	181.45	4,808.55	-1,449.84	-60.35	1,450.75	0.37	-0.30	0.21
6,112.00	92.24	181.83	4,805.38	-1,541.75	-62.98	1,542.69	0.71	0.58	0.41
6,204.00	91.21	180.91	4,802.61	-1,633.68	-65.18	1,634.65	1.50	-1.12	-1.00
6,296.00	89.93	180.90	4,801.69	-1,725.66	-66.63	1,726.64	1.39	-1.39	-0.01
6,388.00	90.60	180.61	4,801.27	-1,817.65	-67.85	1,818.64	0.79	0.73	-0.32
6,480.00	88.72	180.07	4,801.81	-1,909.64	-68.39	1,910.62	2.13	-2.04	-0.59
6,572.00	89.70	179.65	4,803.08	-2,001.63	-68.17	2,002.59	1.16	1.07	-0.46
6,664.00	90.44	179.26	4,802.97	-2,093.63	-67.29	2,094.55	0.91	0.80	-0.42
6,756.00	92.95	180.78	4,800.25	-2,185.58	-67.32	2,186.48	3.19	2.73	1.65
6,847.00	90.44	181.58	4,797.56	-2,276.51	-69.20	2,277.43	2.89	-2.76	0.88
6,939.00	93.19	182.13	4,794.64	-2,368.41	-72.17	2,369.37	3.05	2.99	0.60
7,031.00	92.49	183.59	4,790.08	-2,460.18	-76.76	2,461.21	1.76	-0.76	1.59
7,123.00	91.28	183.84	4,787.06	-2,551.93	-82.71	2,553.07	1.34	-1.32	0.27
7,215.00	90.71	183.26	4,785.46	-2,643.74	-88.41	2,644.97	0.88	-0.62	-0.63
7,325.00	92.22	180.69	4,782.65	-2,753.63	-92.20	2,754.91	2.71	1.37	-2.34
7,385.00	92.22	179.91	4,780.32	-2,813.58	-92.51	2,814.86	1.30	0.00	-1.30
7,477.00	93.23	179.89	4,775.95	-2,905.47	-92.35	2,906.73	1.10	1.10	-0.02
7,568.00	93.33	179.67	4,770.74	-2,996.32	-92.01	2,997.56	0.27	0.11	-0.24
7,659.00	91.61	179.43	4,766.82	-3,087.23	-91.29	3,088.43	1.91	-1.89	-0.26
7,751.00	91.04	183.64	4,764.69	-3,179.16	-93.75	3,180.39	4.62	-0.62	4.58
7,843.00	90.37	185.26	4,763.56	-3,270.87	-100.89	3,272.22	1.91	-0.73	1.76
7,935.00	92.68	185.43	4,761.11	-3,362.43	-109.46	3,363.93	2.52	2.51	0.18
8,028.00	91.19	184.64	4,757.97	-3,455.01	-117.62	3,456.66	1.81	-1.60	-0.85
8,123.00	92.19	183.98	4,755.17	-3,549.70	-124.75	3,551.47	1.26	1.05	-0.69
8,218.00	91.75	179.52	4,751.90	-3,644.58	-127.65	3,646.39	4.71	-0.46	-4.69
8,313.00	91.75	179.90	4,749.00	-3,739.53	-127.17	3,741.31	0.40	0.00	0.40
8,408.00	91.01	179.65	4,746.71	-3,834.50	-126.80	3,836.26	0.82	-0.78	-0.26
8,503.00	92.05	178.54	4,744.18	-3,929.45	-125.30	3,931.16	1.60	1.09	-1.17
8,598.00	92.48	178.25	4,740.42	-4,024.34	-122.64	4,025.98	0.55	0.45	-0.31
8,693.00	91.41	177.31	4,737.20	-4,119.21	-118.96	4,120.76	1.50	-1.13	-0.99
8,788.00	92.29	176.98	4,734.13	-4,214.05	-114.23	4,215.48	0.99	0.93	-0.35
8,883.00	91.38	176.15	4,731.09	-4,308.82	-108.54	4,310.13	1.30	-0.96	-0.87
8,977.00	89.16	178.43	4,730.65	-4,402.71	-104.10	4,403.90	3.39	-2.36	2.43
9,073.00	90.07	178.86	4,731.29	-4,498.68	-101.83	4,499.81	1.05	0.95	0.45
9,168.00	89.83	179.25	4,731.37	-4,593.66	-100.26	4,594.75	0.48	-0.25	0.41
9,263.00	92.65	178.29	4,729.32	-4,688.61	-98.22	4,689.63	3.14	2.97	-1.01
9,294.00	93.39	178.58	4,727.69	-4,719.55	-97.38	4,720.56	2.56	2.39	0.94
9,325.00	93.65	178.93	4,725.78	-4,750.49	-96.71	4,751.47	1.40	0.84	1.13
9,357.00	93.74	178.93	4,723.72	-4,782.42	-96.11	4,783.38	0.28	0.28	0.00
LAST SDI MWD PRODUCTION SURVEY									
9,403.00	93.74	178.93	4,720.72	-4,828.31	-95.25	4,829.25	0.00	0.00	0.00

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Site MAVERICK 921-27D-HZ
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	GL 4934 & KB 19 @ 4953.00ft (PIONEER 54)
Site:	MAVERICK 921-27D-HZ	**MD Reference:**	GL 4934 & KB 19 @ 4953.00ft (PIONEER 54)
Well:	MAVERICK 921-27D-HZ	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
SDI PROJECTION TO TD									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
2,581.00	2,578.85	-3.47	-41.58	FIRST SDI MWD PRODUCTION SURVEY
9,357.00	4,723.72	-4,782.42	-96.11	LAST SDI MWD PRODUCTION SURVEY
9,403.00	4,720.72	-4,828.31	-95.25	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: P.O. BOX 173779
city DENVER
state CO zip 80217
Phone Number: (435) 781-9758

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304732426	NATURAL COTTON 34-21		NWSE	21	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
D	11522	19013				1/12/2013	
Comments:							

Dec. 30, 2013

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304732466	NBU 214		NWSW	27	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
D	18351	19013				1/12/2013	
Comments:							

Dec 30, 2013

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752051	MAVERICK 921-27D-HZ		NWNW	27	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
D	18542	19013				1/12/2013	
Comments:							

Dec 30, 2013

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

Doreen Green
Name (Please Print)
Signature
Regulatory Analyst
Title
12/23/2013
Date

RECEIVED
DEC 24 2013
Div. of Oil, Gas & Mining

(5/2000)